

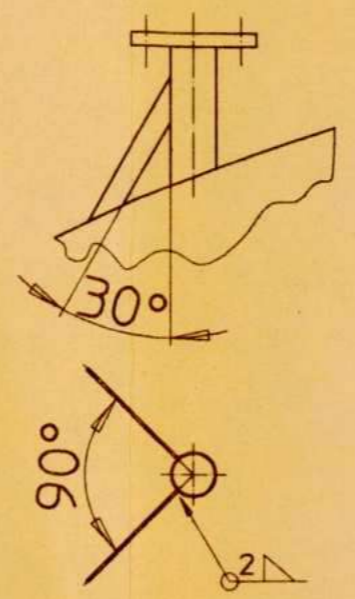
INHALTSVERZEICHNIS
Anlagendokumentation - Teil 3
APPARATEDOKUMENTATION

<i>Equipm.</i>	<i>Lfd.</i>	<i>Benennung /</i>	<i>Lieferant</i>
<i>Pos.-Nr.:</i>	<i>Nr.:</i>	<i>Inhalt des Dokumentations-Abschnittes</i>	

349.1		Lagertank 10m ³	Bertsch
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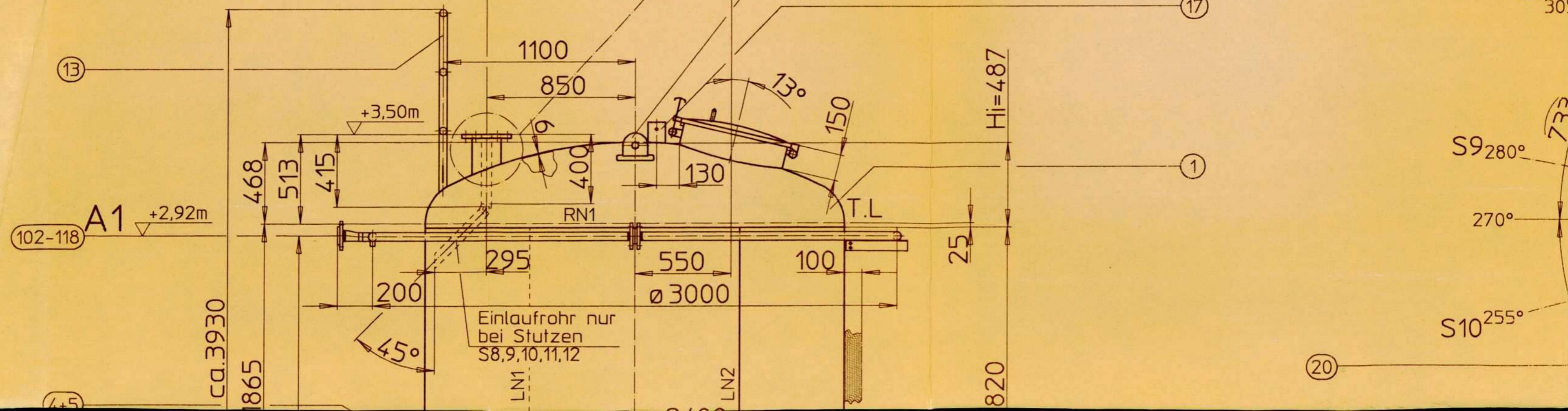
- Zusammenstellung Lagertank 10 m³
- Detailzeichnung für Lagertank 10m³
- Detailzeichnung Lasche für Tankdachdüse
- Detailzeichnung Fabrikschildhalterung
- Weitere auf der Gesamtstückliste angeführte
Detailzeichnungen sind im Anhang der Pos. 340.1
dokumentiert
- Stückliste Lagertank 10m³ 349.1/350.1
- Fertigungsprüfplan 349.1
- Fertigungsprüfplan 350.1
- Bescheinigung Wasserdruckprüfung 349.1
- Bescheinigung Wasserdruckprüfung 350.1
- Werkstoffklärung 349.1
- Werkstoffklärung 350.1

Verstärkungsrippen
nur bei S12



- (43+44) _____ S5
- (47+48) _____ S6
- (51+52) _____ S7
- (55-58) _____ S8+9
- (61-68) _____ S10+11
- (71-79) _____ S12
- (81+82) _____ S13
- (85-90) _____ S14

S1⁽³¹⁾

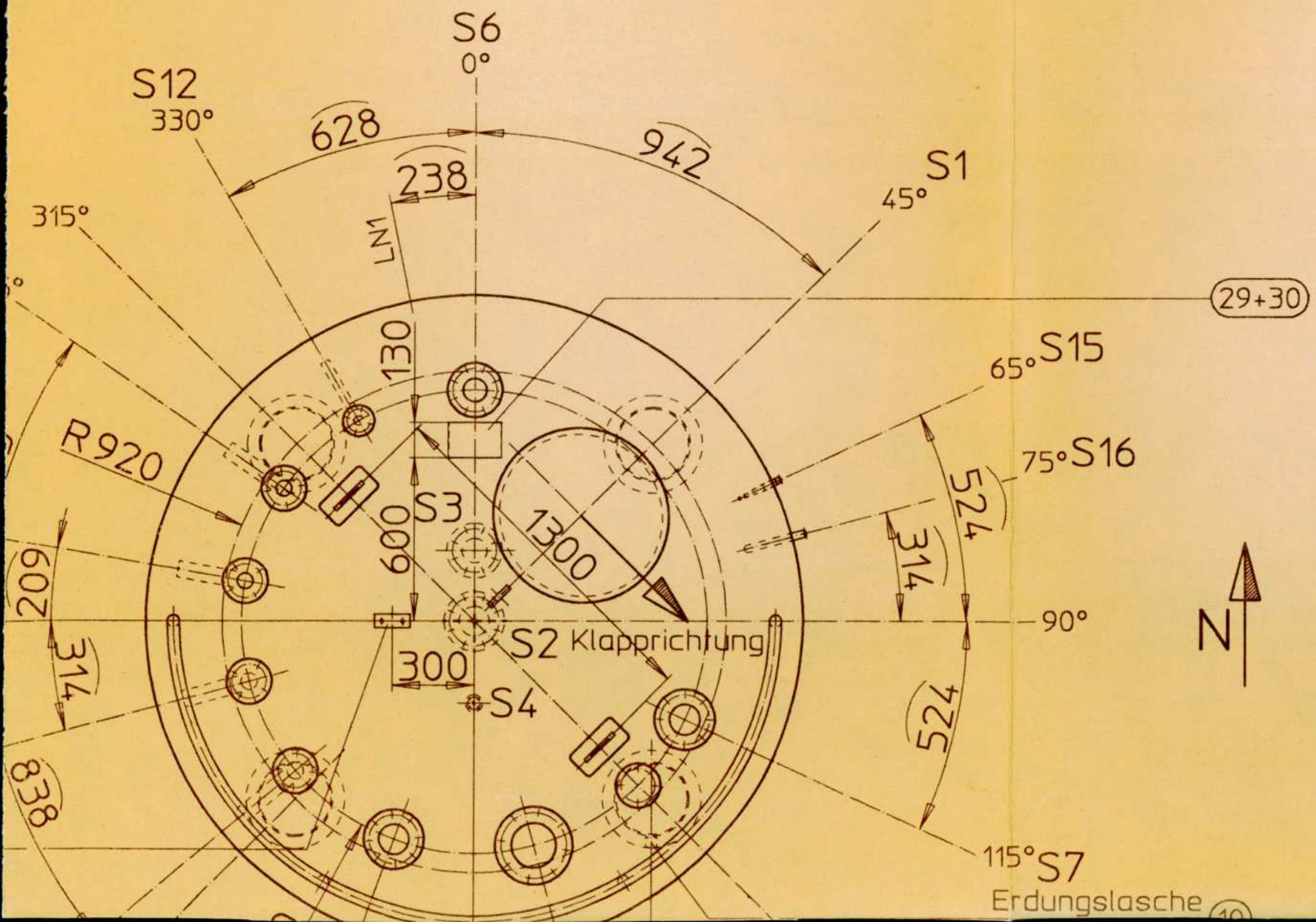


BERTSCH

J.BERTSCH Ges.m.b.H.&Co.KESSEL- u.MASCHINENFABRIK-INDUSTRIEANLAGEN
BLUDENZ-AUSTRIA

FABR. NR. MFR'S SERIAL NO.	10610(10611)	BAUJAHR YEAR BUILT	1994
ZUL. BETRIEBSÜBERDRUCK MAX. OPERATING PRESSURE	1/-0,25 bar		
ZUL. BETRIEBSTEMPERATUR MAX. OPERATING TEMPERATURE	100/-10 °C		
INHALT total VOLUME	11100 l		

Bogenmaße auf ø 2400 bezogen.



Materials	Werkstoffe		
Manell Shell	1.4571	Dichtungen für App-Flansche Gasket for Girth Flange	-
Böden Heads	1.4571	Zarge/Sättel/Pratzen/Füße Skirt/Saddles/Brackets/Legs	1.4301 St33
Konus Cone	-	Äußere Anschweißteile External Welded Attachments	1.4301
Plattierung Cladding	-	Innere Anschweißteile Internal Welded Attachments	1.4571
Ausschnittverstärkung Nozzle Reinforcement	-	Innere Aufbaubare Teile Internal Reinforceable Attachm.	-
Blindflansch Blind Flanges	1.4571	Innere Schrauben u.Muttern Internal Bolts & Nuts	-
Stutzenflansch Nozzle Flange	1.4571	Innere Dichtungen Internal Gaskets	-
Stutzenrohre Nozzle Necks	1.4571	Maschenranpakete Wire Mesh Pads	-
Schrauben für Stutzen Bolt for Nozzles	A2	Tragrosche u. Verteilerböden Grids & Distributors	-
Muttern für Stutzen Nuts for Nozzles	A2	Rohrpatten Tube Sheets	-
Dichtungen für Stutzen Gaskets for Nozzles	TEFLON	Bündelrohre Bundle Tubes	-
Apparateflansche Girth Flanges	-	Umlenk- u. Stützblech Baffles and Supp. Plates	-
Schrauben für App.-Fl. Bolts for Girth Flanges	-	Heiz- u. Kühlchlange Heating-Cooling Coil	-
Muttern für App.-Fl. Nuts for Girth Flange	-		-

Tolerances		Toleranzen	
Behälter Vessel	DIN 28005	Kolonne Column	
Rührbehälter Agitator vessel		Rohrbündel-Wärmeauscher Tubular heat exchanger	

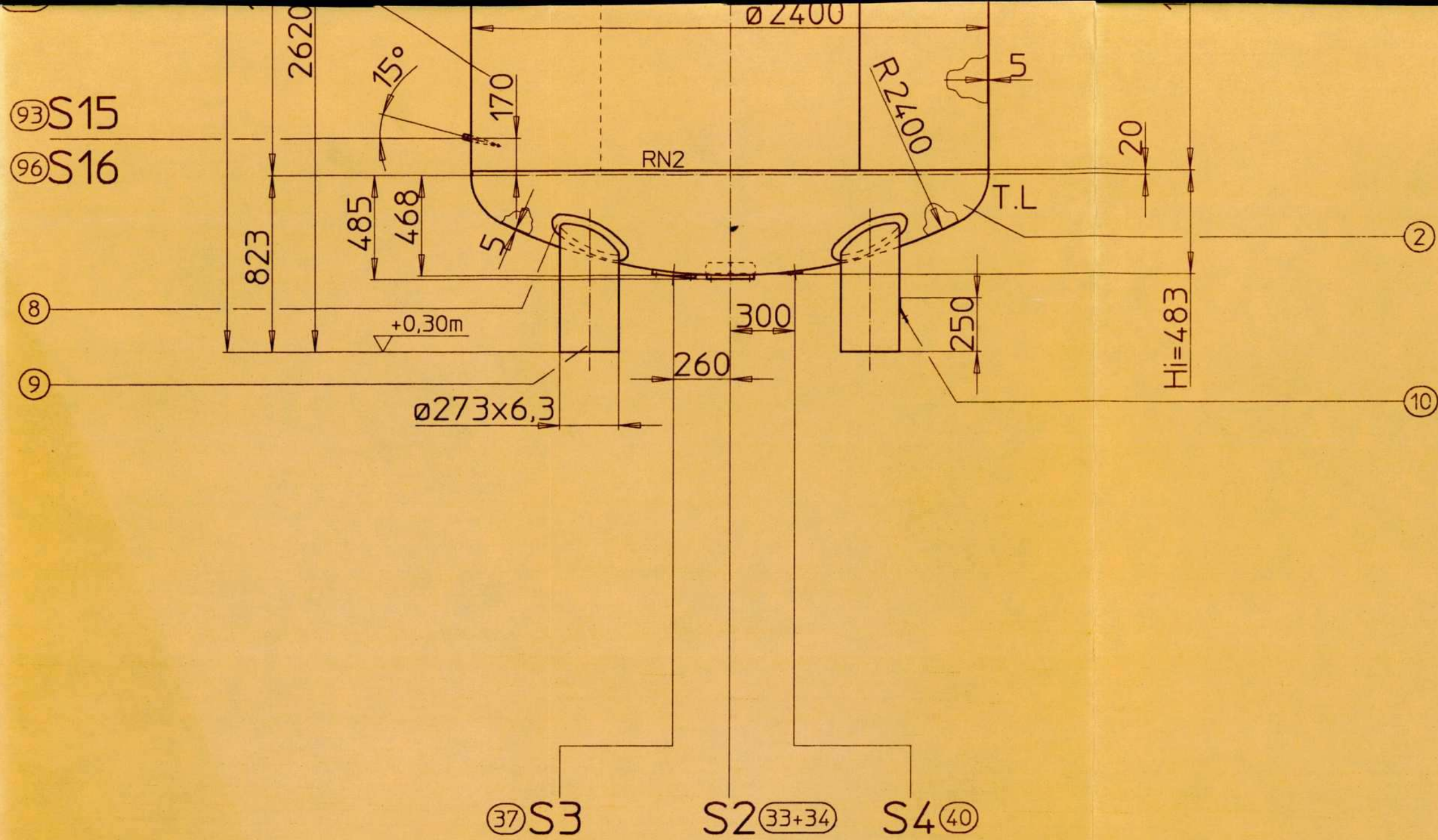
Korrosionsschutz			
Corrosion-protection	Füße vor Aufschweißen	Niro-Teile außen	Innen
Oberflächenvorbeh. Surface preparation	Sandstrahlen Sa 2 1/2	beizen und neutralisieren	Schweißnähte blechen schleifen Korn 220
1 Grundanstrich außen Prime coat outside	tx Grundanstrich		
2 Grundanstrich Prime coat			beizen und neutralisieren
Deckanstrich Finish coat			

Weights		Gewichte		
Gewicht Weight	Leer Empty	ca.1500	Leer mit Ein- u. Anbauten Empty with Int.&Externals	-
	Mit Wasserfüllung With Water Filling	ca.12600	In betrieb Live Load	-
	Transportgewicht Transport weight	ca.1500	Mit ein- u. Anb. sow. Wasserf. With Int. Ext. and Water Fill.	-

Design Data		Auslegungsdaten	
Zul. Betriebsüberdruck Design Press.(g)(PB) bar	1/-0,25	Berechnung nach Design Code	ÖWBV
Arbeitsüberdruck Working Press.(g)(PA) bar	1/-0,25	Amtl. Prüfung durch Official Inspection by:	-
Prüfüberdruck Test Press.(g)	legend horizontal	1,6	Halt-/Ausführungsprüfung: Dimensional Check
	bar (PP) stehend oben vertical top	1,3	
Zul. Betriebstemperatur Design Temp. (TB) °C	100/-10	Isolierung, Art u. Dicke Insulation, Type & Thickn.	100
Arbeitstemperatur Working Temp. (TB) °C	15	Austauschfläche Exchange surface m ²	-
Ausn. d. zul. Berechnungs- spannung i.d. Schweißnaht % Joint Efficiency	80	Wärmebehandlung Heat Treatment	-
Abnutzungszuschlag Corr. Allowance mm	0	Erdbebenfaktor Seismic Factor	-
Totalvolumen Capacity l	11100		
Nutzvolumen Capacity l	10000		
Medium Fluid	-		
Dichte Density kg/m ³	1000		

Schraubenanzugsmomente	

Allgemeine Angaben	
General Data	
Flanschachsen lochfrei Do not locate bolt holes on flange center lines	



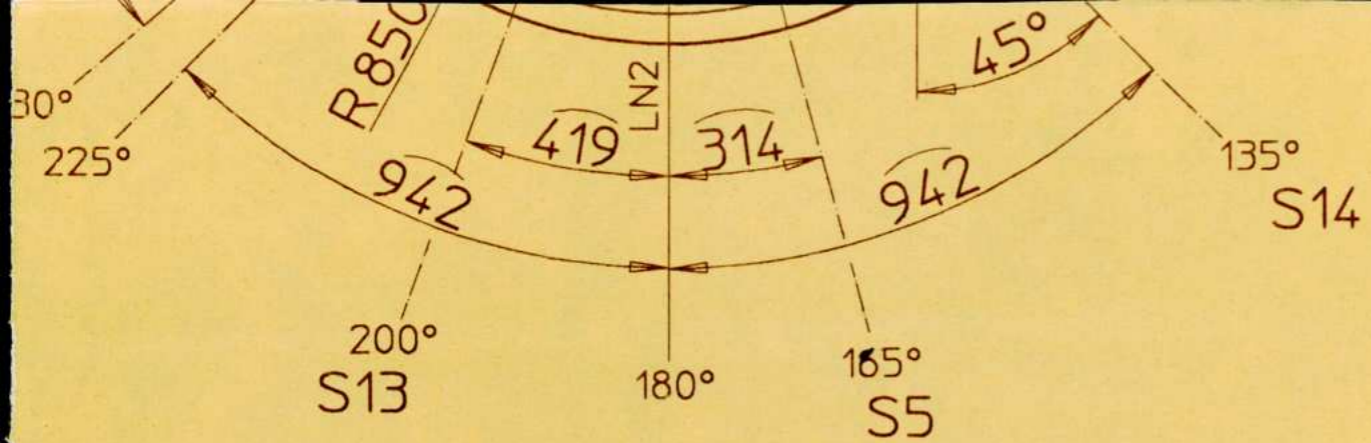
Schweißverfahren
Schweißzusatz

Plasma:
Böhler SAS 4-IG
Ar; Ar / H2

WIG:
Böhler SAS 4-IG
Ar

E:
Böhler FOX SAS

MAG:(Fülldraht)
AVESTA FCW 316
Mix 18



10 Sattelblech für Rohrhalter
Pos.26 sind lose mitzuliefern.

ahren
tzwerkstoff

4-A

L

Bez. Item	Anz. No.	NW DN	ND PN	DIN ANSI	Dichtf. Facing	Blindf. Blindfl.	Blindf. Blindfl.	Äuß. ax. Wand OD x Thickness	b x h	Benennung Designation
A1	1	40	10	2673	2	-	B	-	48,3x2	Löschwasser-Eintritt
S16	1	-	-	-	-	-	-	-	27	Thermometerhülse BC-NORM 11.2 Typ 2
S15	1	-	-	-	-	-	-	-	24,3	Thermometerhülse BC-NORM 11.2 Typ 1
S14	1	50	10	2576	-	B	B	200	60,3x2,9	Reserve-Blind
S13	1	100	10	2576	-	B	-	200	114,3x3,6	Abluft
S12	1	25	10	2576	-	B	B	200	33,7x2,6	Eintritt res.-Blind
S11	1	50	10	2576	-	B	B	200	60,3x2,9	Eintritt res.-Blind
S10	1	50	10	2576	-	B	-	200	60,3x2,9	Eintritt res.-Blind
S9	1	50	10	2576	-	B	-	200	60,3x2,9	Eintritt
S8	1	50	10	2576	-	B	-	200	60,3x2,9	Eintritt
S7	1	100	10	2576	-	B	-	200	114,3x3,6	Level Switch
S6	1	80	10	2576	-	B	-	200	88,9x3,2	Füllstand
S5	1	150	10	2576	-	B	-	200	168,3x4,5	Sicherheitsventil
S4	1	15	10	-	-	B	-	-	-	Blockflansch
S3	1	80	10	-	-	B	-	-	-	Füllstand/BC-NORM 11.3
S2	1	100	10	-	-	B	-	-	-	Auslauf/BC-NORM 11.3
S1	1	600	-	-	-	-	-	-	-	Mannloch

Stutzen Nozzle Flansch Flange Rohr Pipe Verst. Ring Reinforcem.

Stutzentabelle

Änderung Revision	4			
	3	5.7.94	Mey	Durchmesser Löschleitung, Halterung Tankdachdüse entfallen
	2	22.6.94	Mey	Halterung, Verstärkungsrippen, Stutzenlängen S8-12, Lage Erdungslasche
	1	7.6.94	Mey	Löschleitung, Klapprichtung S1, Lage Fabrik Schild, Erdungslasche Lasche für Tankdachdüse, Lasche für Spindelverlängerung
Diese Zeichnung darf nur am Bildschirm geändert werden!				
Gezeichnet Drawn	Datum Date	Name Name	Maßstab Scale	 GESELLSCHAFT M B H & Co KESSEL- U. MASCHINENFABRIK 6700 BLUDENZ VORARLBERG
Geprüft Checked		Hr. Gut	1 : 20	
Projekt / Project		Kunde / Client		Zeichn. Nr. Kunde / Dwg. No. Client
		BIOCHEMIE KUNDL		
Bezeichnung / Designation				Zeichn. Nr. / Dwg. No.
2 LAGERTANK 10 m3				I94053AG011
				Rev. 3
Weitergabe sowie Vervielfältigung dieser Unterlage, Verwertung und Mitteilung ihres Inhalts nicht gestattet, soweit nicht schriftlich zugestanden. Verstoß verpflichtet zu Schadenersatz. Alle Rechte, auch Patenterteilung und GM-Eintragung, vorbehalten.				This drawing is our property and must not be copied or presented to a third party.

Schraubengewinde für äußere Flanschverbindungen mit Molykote einstreichen
 Bolt threads for outside flange connections to be coated with Molykote
 Dichtflächen und maschinell bearbeitete Flächen mit TECTYL 506 schützen
 Flange faces and machined surfaces to be protected with TECTYL 506
 Offene Stutzen für den Versand verschließen mit: Alublech
 Open nozzles to be closed for transportation with: Alublech

Verarbeitungsrückstände wie Schlacken, Schweißspritzer, usw. sind sorgfältig zu entfernen.
 Alle Stutzenenden sind an den Innenkanten mit r=2 mm zu runden.
 Verstärkungsbleche sind mit Entlüftungsböhrung ø5 auszuführen.

FREIGEgeben ZUR AUSFÜHRUNG
 RELEASED FOR CONSTRUCTION
 nicht gültig ohne Unterschrift
 not valid without signature
 Datum/date Name/name

Spezial Data **Spezielle Angaben**

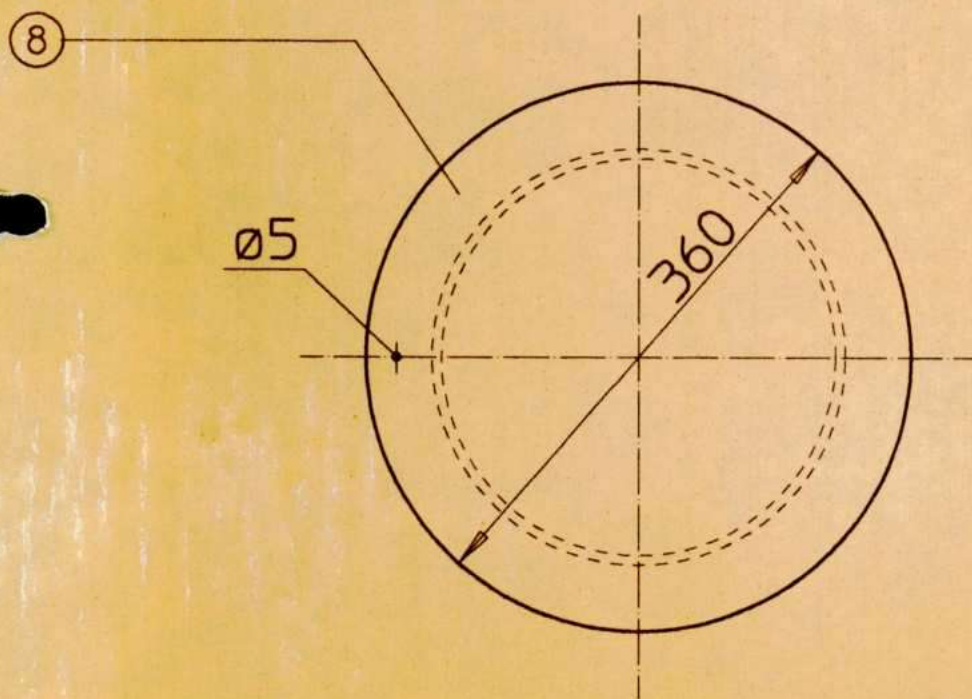
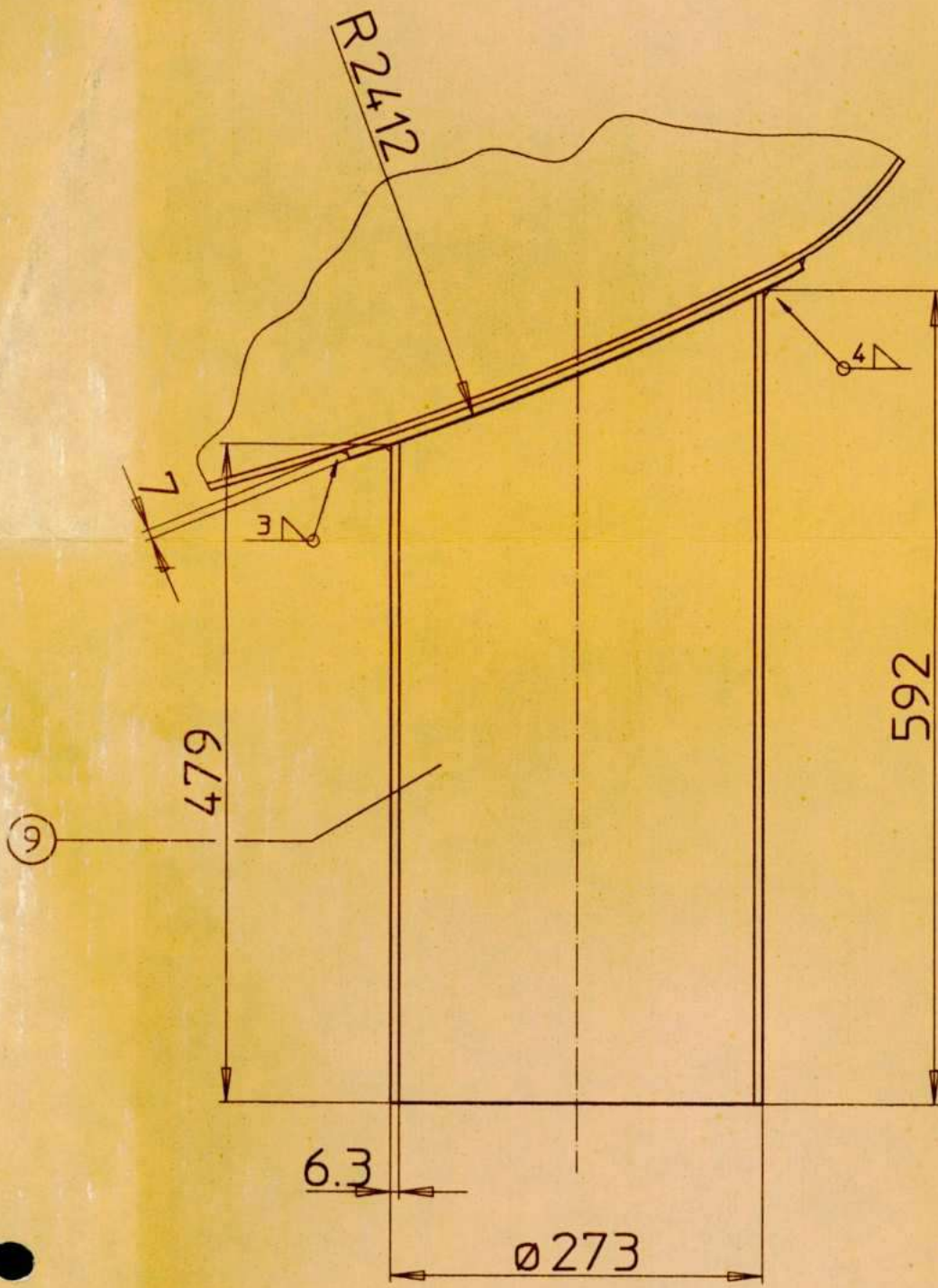
Ausführungsart und Oberflächenbeschaffenheit
 Bleche: C 2 oder II a
 Rohre: C 2

Reference drawings **Zugehörige Zeichnungen**

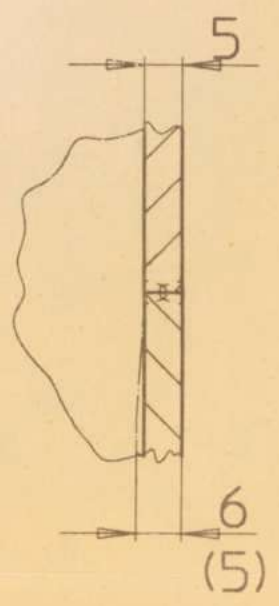
	Zng.Nr. Dwg.No.	BERTSCH
Stückliste	I94053AG024	
Detailzeichnung	I94053AG042	
Löschleitung	I94053AG052	
Thermometerhülse für PT-100 L-275 / BC-NORM 11.2 Typ 1	I94053AS014	
Thermometerhülse für Handmessung / BC-NORM 11.2 Typ 2	I94053AS024	
Blockflansch für Apparate / BC-NORM 11.3	I94053AS034	
Blockflansch für Worcester-Kugelhahn / BC-NORM 11.4	I94053AS044	
Geländer R-1100	I94053AS072	
Lasche für Bergesicherungsgerät / BC-NORM 11.1 Teil 2	I94053AS084	
Erdungslasche	I94053AS104	
Hebelaschen	I94053AS124	
Wirbelbrecher	I94053AS134	
Profilringe	I94053AS144	
Lasche für Tankdachdüse	I94053AS174	
Fabrik Schildhalterung / BC-NORM 9.27	I94053AS184	

Fußdetail

M 1:5

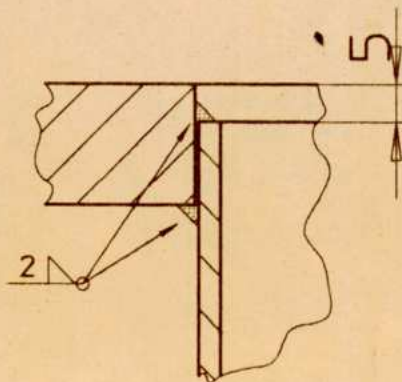


RN1+2, LN1+2
M 1:1



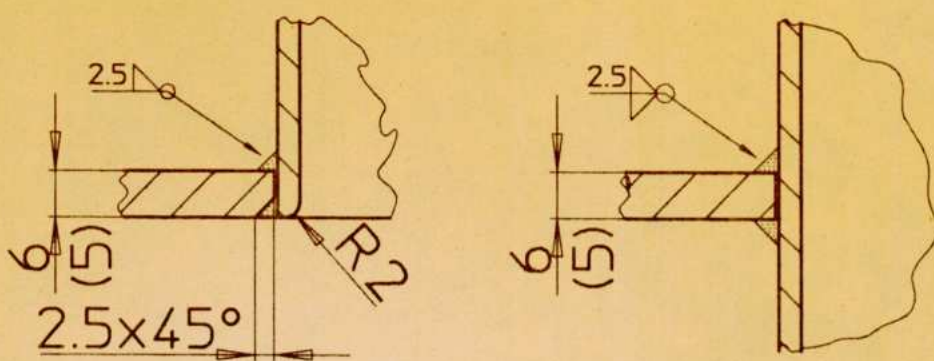
Stutzenrundnähte S5-14

M 1 : 1



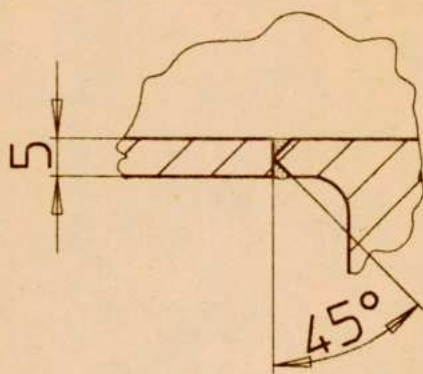
Stutzeneinschweißung S1,S5-16

M 1 : 1



Blockflanscheinschweißung S2-4

M 1 : 1



Schweißnähte innen blecheben schleifen Korn 220

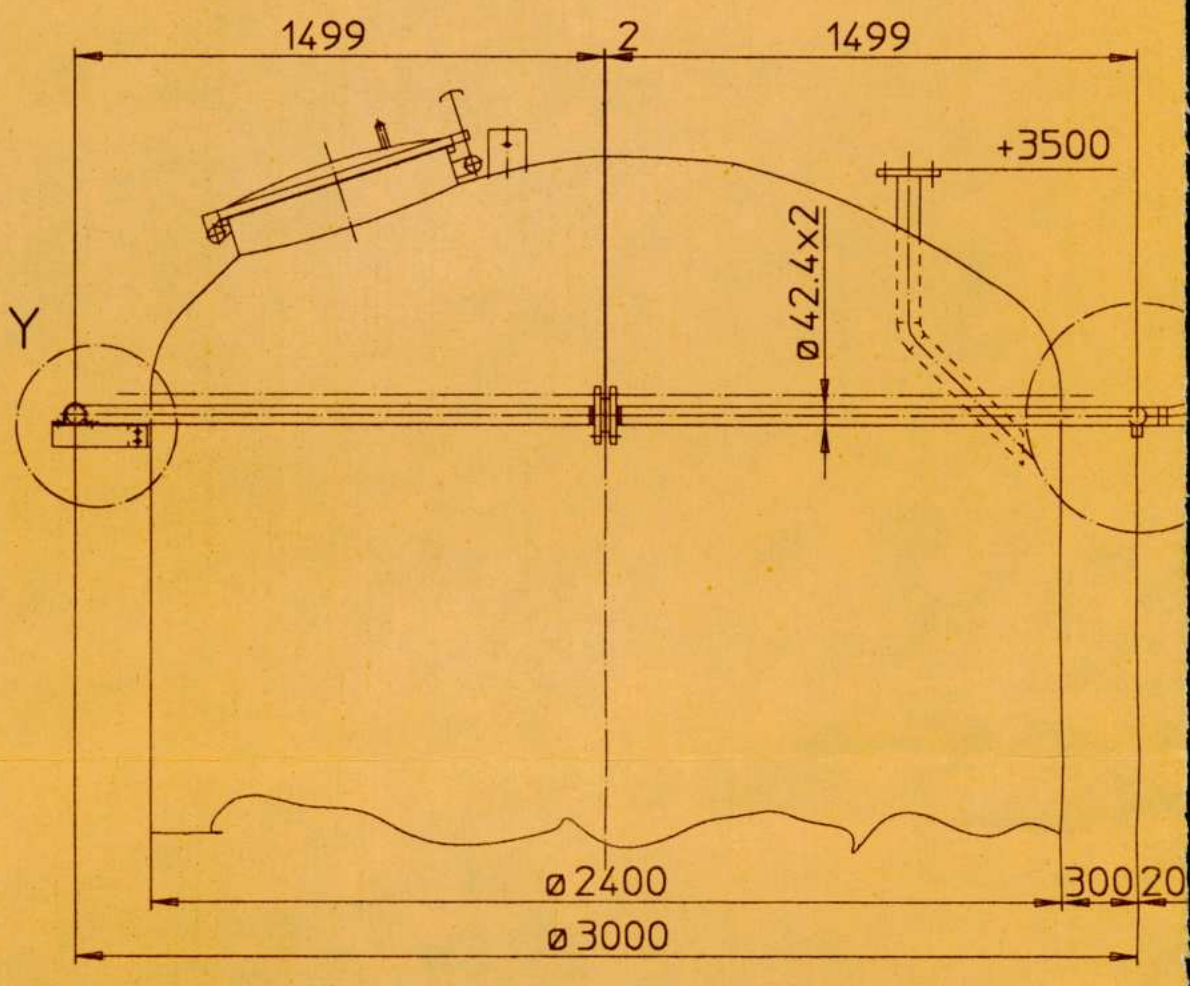
Änderung Revision	4		
	3		
	2		
	1	7.6.94	Mey

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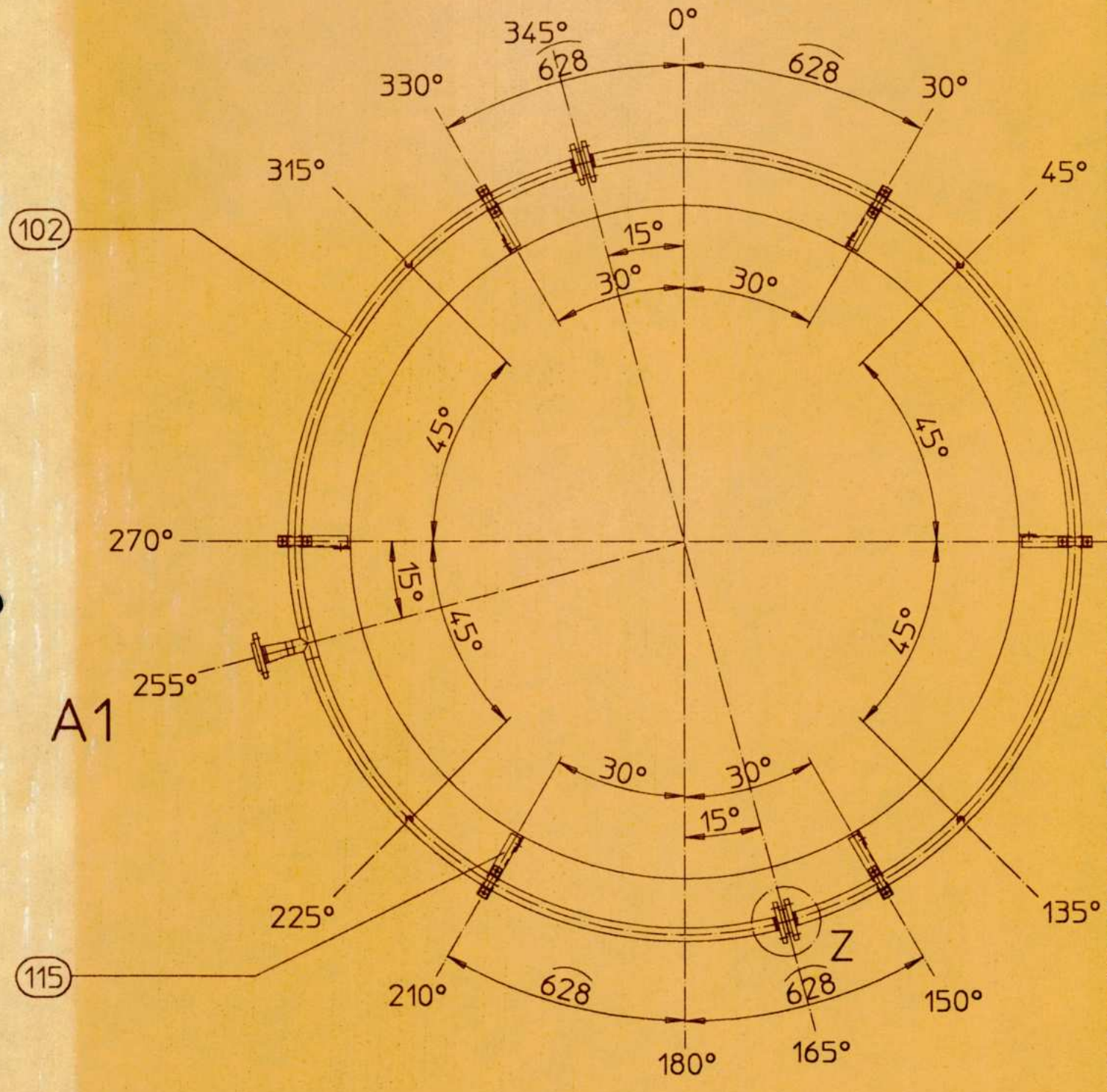
	Datum Date	Name Name	Maßstab Scale	 GESELLSCHAFT M B H & Co KESSEL- U. MASCHINENFABRIK 6700 BLUDENZ VORARLBERG
Gezeichnet Drawn	5.5.94	Mey	1 : 5	
Geprüft Checked		Hr.Gut	1 : 1	
Projekt / Project		Kunde / Client		Zeichn. Nr. Kunde / Dwg. No. Client
		BIOCHEMIE KUNDL		
Bezeichnung / Designation				
Detailzeichnung für 2 LAGERTANK 10 m ³ 349.1, 350.1				
Zeichn. Nr. / Dwg. No.			Rev.	
I94053AG042			1	

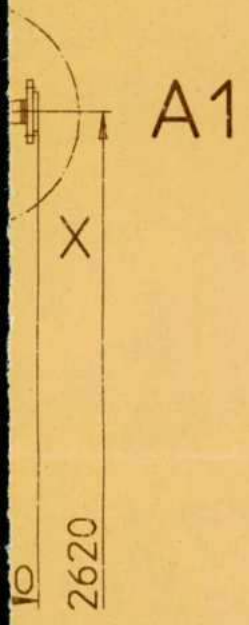
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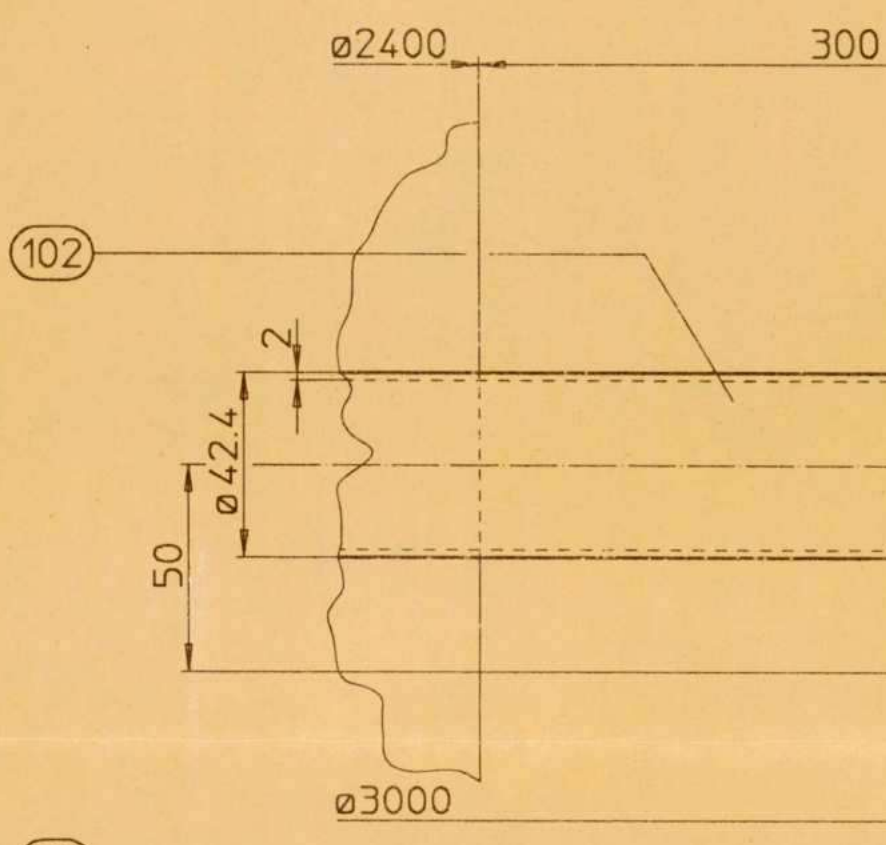


Bogenmaße auf $\varnothing 2400$ bezogen.

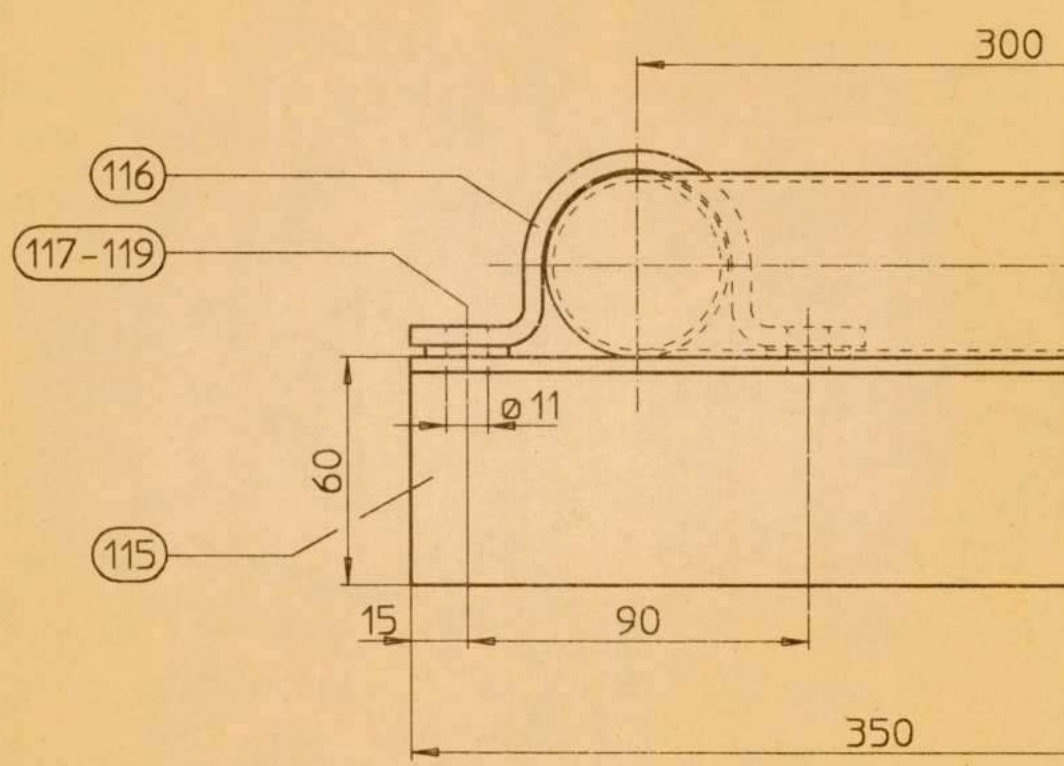




A1

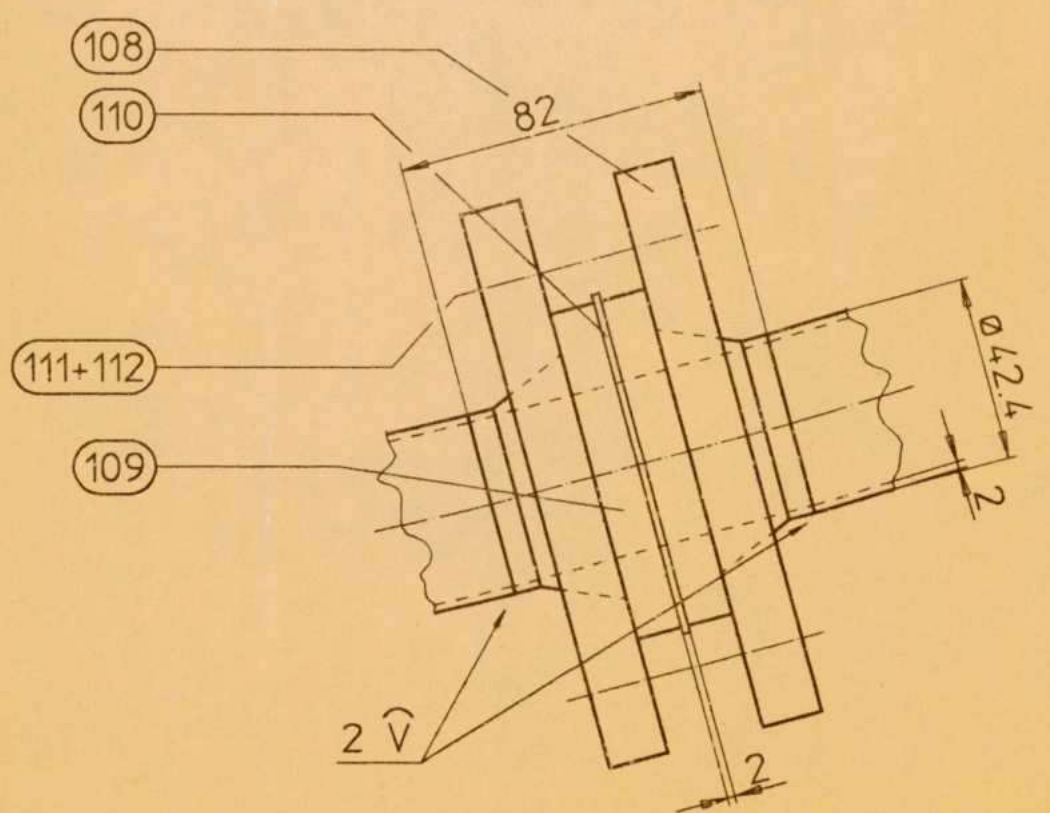


113

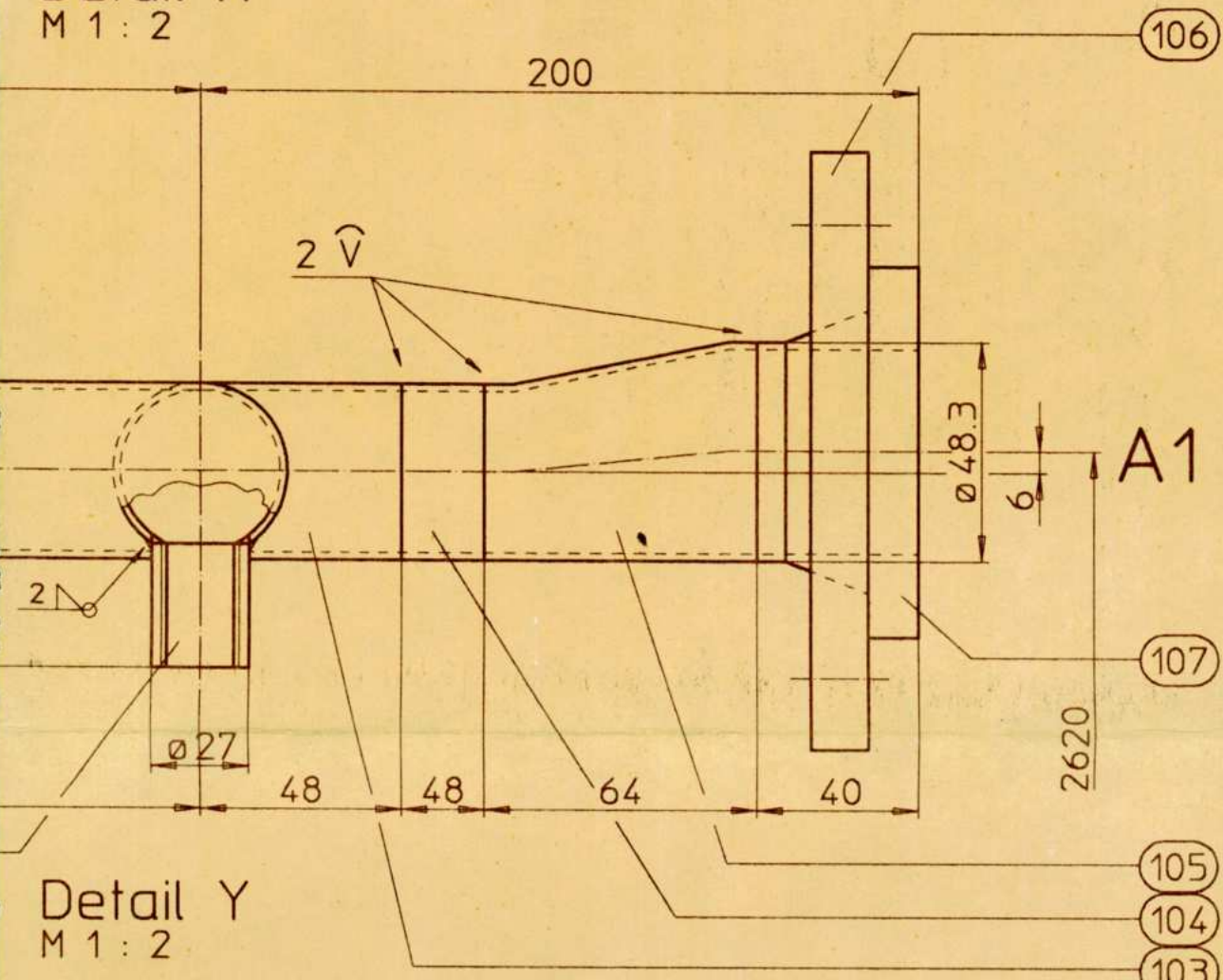


Detail Z
M 1:2

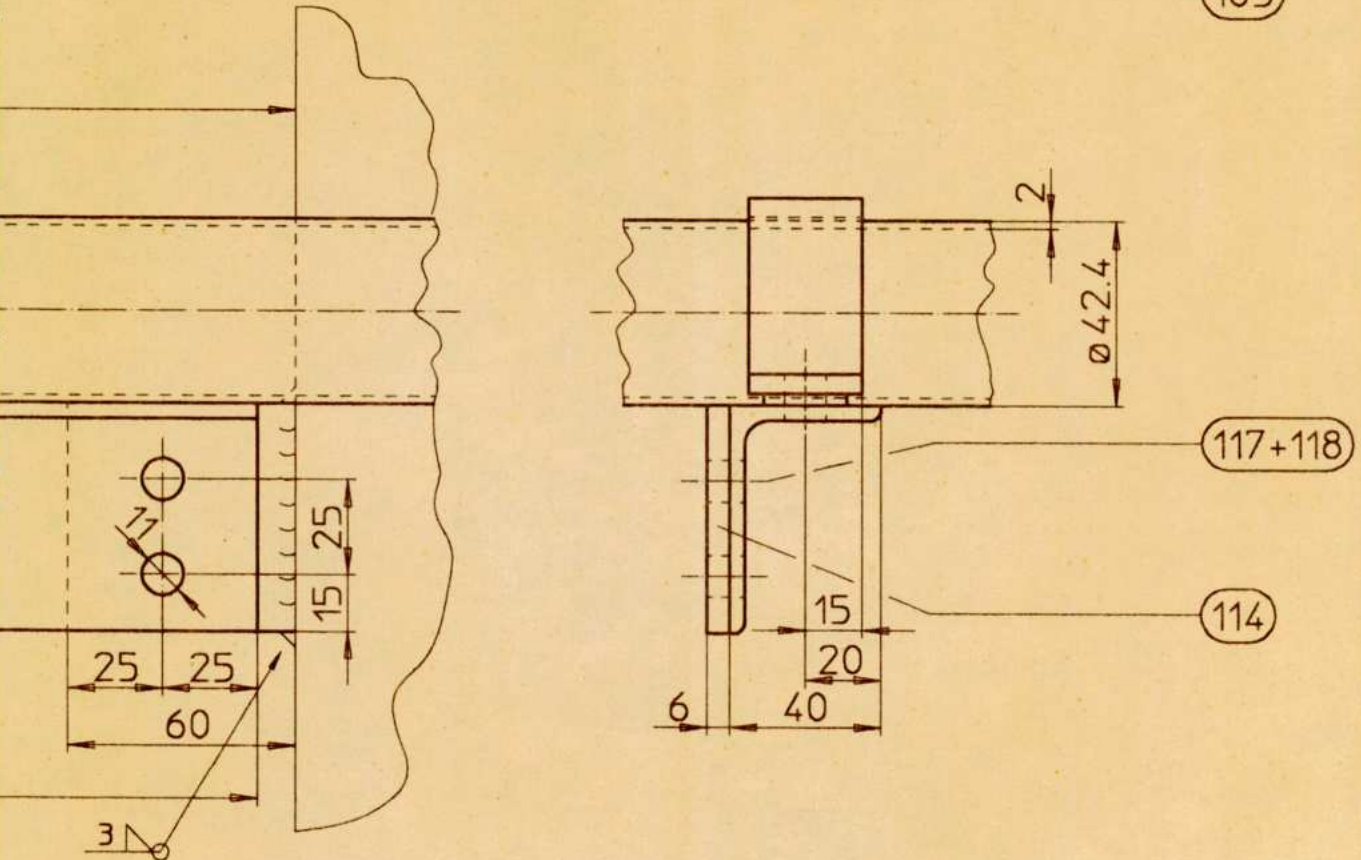
90°



Detail X
M 1 : 2



Detail Y
M 1 : 2



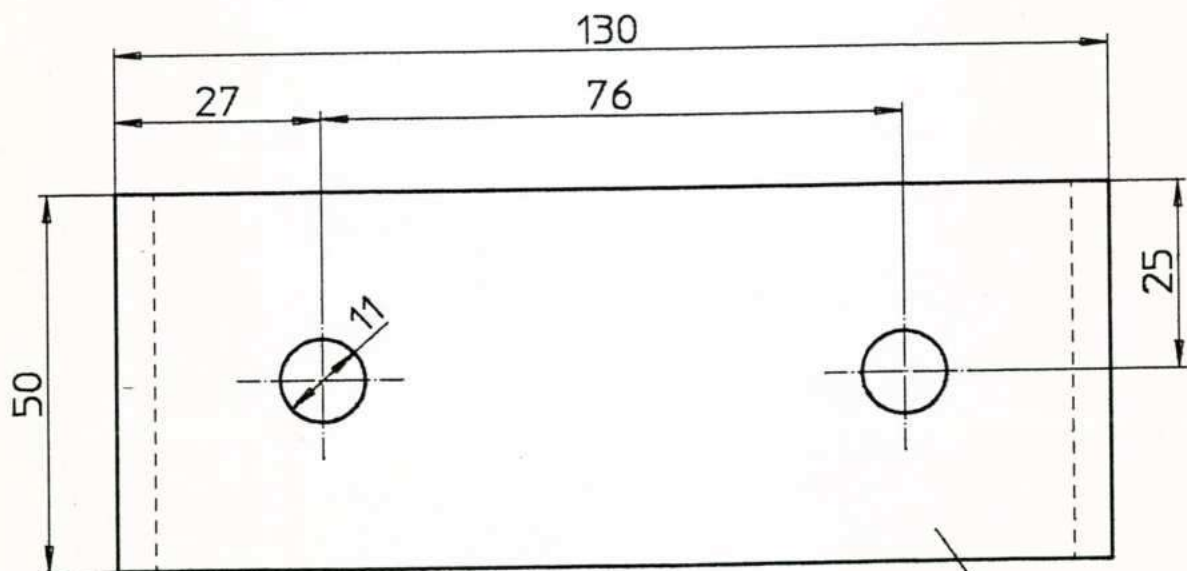
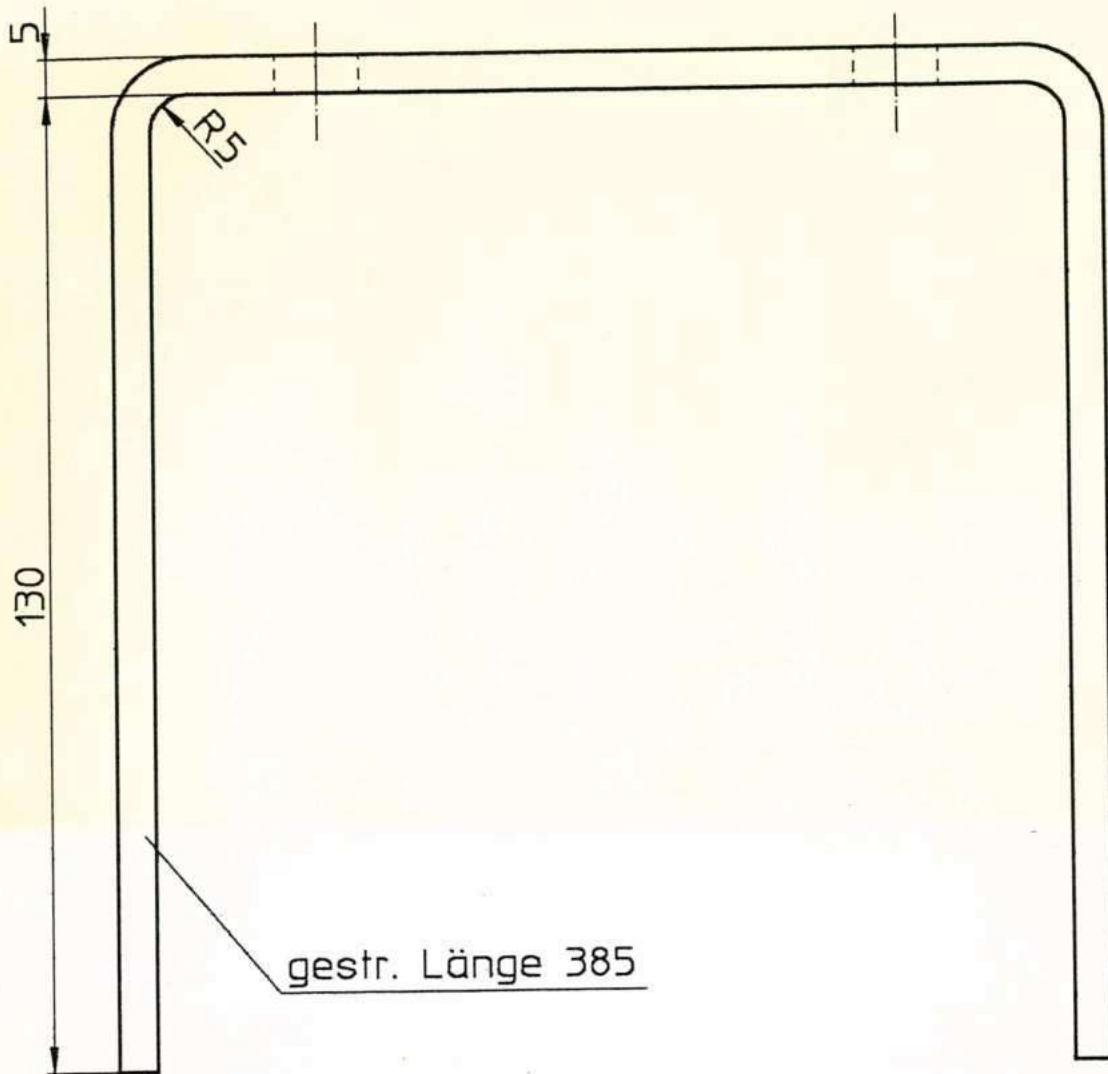
Änderung Revision	4			
	3			
	2	5.7.94	Mey	Durchmesser Löschleitung
	1	22.6.94	Mey	Abstand Löschleitung, Ausführung Rohrschellen

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	Datum Date	Name Name	Maßstab Scale	 GESELLSCHAFT M B H & Co KESSEL- U. MASCHINENFABRIK 6700 BLUDENZ VORARLBERG
Gezeichnet Drawn	7.6.94	Mey	1 : 20	
Geprüft Checked		Hr.Gut	1 : 2	
Projekt / Project		Kunde / Client		Zeichn. Nr. Kunde / Dwg. No. Client
		BIOCHEMIE KUNDL		
Bezeichnung / Designation				
Löschleitung für 2 LAGERTANK 10 m3 349.1 und 350.1				
Zeichn. Nr. / Dwg. No.			Rev.	
I94053AG052			2	

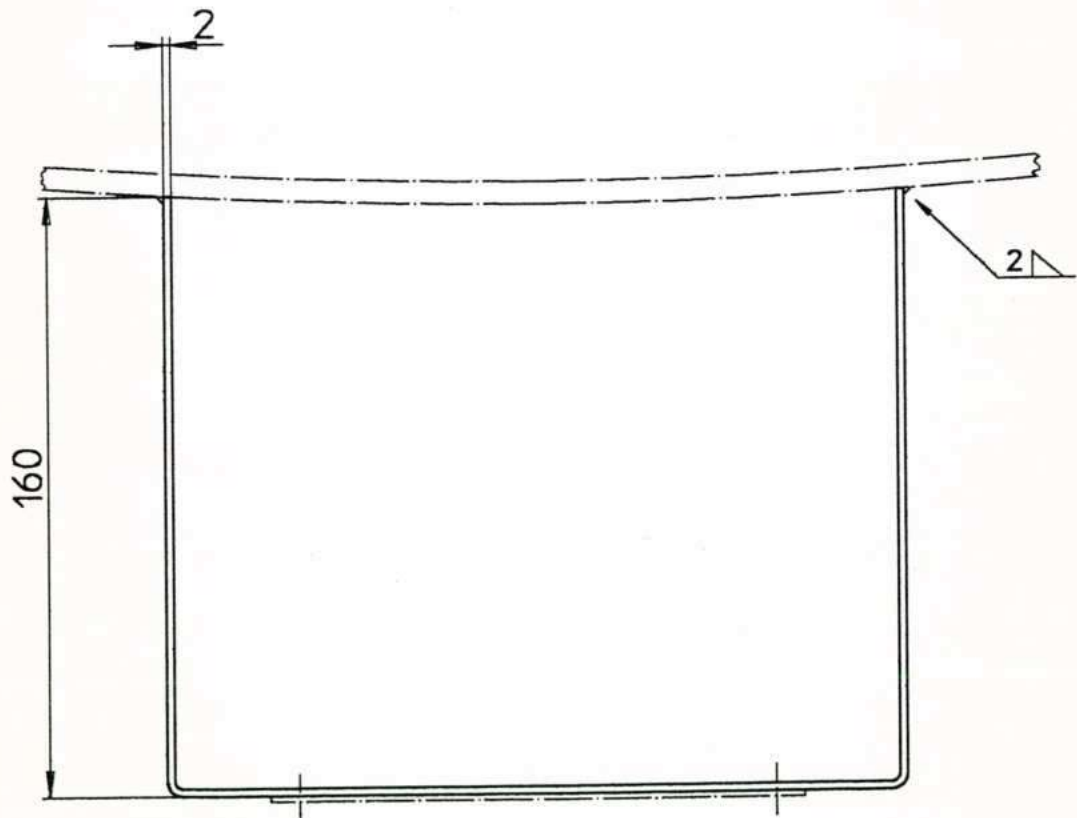
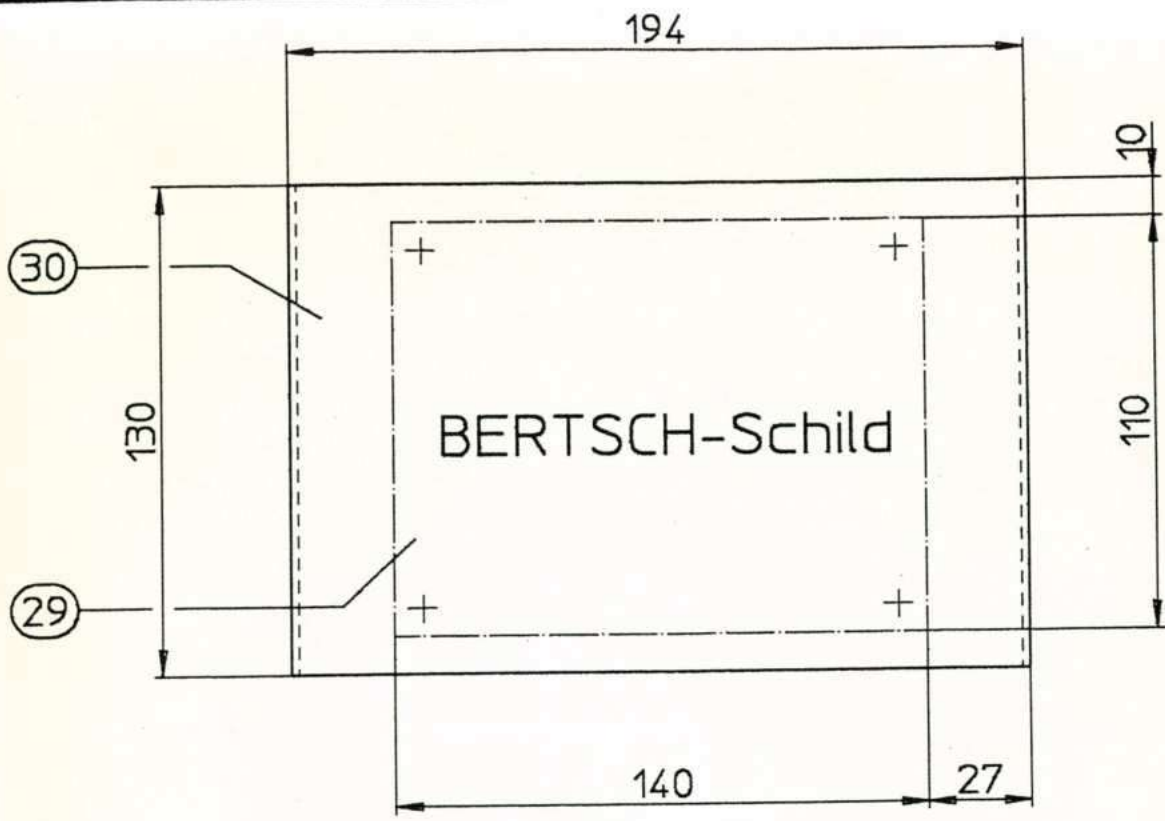
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Bezeichnung / Designation: Lasche für Tankdachdüse für LAGERTANK 349.1, 350.1

BERTSCH <small>GESELLSCHAFT M B H & Co KESSEL- U. MASCHINENFABRIK 6700 BILDENZ VORARLBERG</small>	Gezeichnet / Drawn	6.07.94Mey	Werkstoff / material 1.4301	Zeichn. Nr. / Dwg. No. I94053AS174	Rev. 0
	Geprüft / Checked	Hr.Gut			



Bezeichnung / Designation: Fabrik Schildhalterung / BC-NORM 9.27 für LAGERTANK 349.1,350.1

BERTSCH <small>GESELLSCHAFT M. B. H. & Co. KESSEL- U. MASCHINENFABRIK 6700 BILDENZ VORARLBERG</small>	Gezeichnet Drawn	6.07.94Mey	Werkstoff / material	Zeichn. Nr. / Dwg. No.	Rev.
	Geprüft Checked	Hr.Gut	1.4301	I94053AS184	0

STÜCKLISTE / PART LIST

Änderung Revision	5			
	4			
	3	07.07.94	Mey	Ø Pos. 102, Länge Pos. 115, ZNr. Pos. 20, 30, Pos. 28 entfallen
	2	22.06.94	Mey	Halterung, Mannlochdichtung, Verstärkungsrippen S12
	1	07.06.94	Mey	Löschleitung, Lasche für Tankdachdüse, Sattelblech für Rohhalter, Wirbelbrecher
		Datum Date	Name Name	JOSEF BERTSCH Ges. m. b. H. & Co. KESSEL-UND MASCHINENFABRIK, INDUSTRIEANLAGENBAU BLUDENZ - VORARLBERG - AUSTRIA
Gezeichnet Drawn	10.05.94	Meyer		
Geprüft Checked	17.05.94	Gut		
Gesamtgewicht/total weight:		Kunde / Client		Blatt:
1431 kg		Biochemie Kundl		1 von 6
Bezeichnung/Designation			Zeichn. Nr. / Drawing No.	
Lagertank 10 m3 349.1, 350.1			I 94 053 AG 02 4	
Rev.			3	
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BERTSCH

EN 29001

JOSEF BERTSCH		Gehört zu/apparting to				Stückliste / part list:			Blatt 2 v. 6		
KESSEL-UND MASCHINENFABRIK BLUDENZ-VORARLBERG		Lagertank 10 m3 349.1, 350.1				I 94 053 AG 02 4					
Datum, Name / date, name						Besteller/client:		Gewicht/Seite, weight/page:		Datum:	
10.05.94 Meyer						Biochemie Kundl		1276,0 kg		07.07.94	
Stück	Gegenstand	DIN	Pcs.	Werkstoff	DIN	Rohmaße	Gewicht:	Attest	Bemerkung	E.T.Z.	Ma.
pieces	object	standard	ser.No	material	standard	base size	weight:	cert.	remark	Nr.:	Pos.
1	Klöpperboden	28 011	1	1.4571	17 440	Ø 2400 x 6 - I - Bl - 5,h1=25	304	3.1 B	Ausf. c2		42
1	Klöpperboden	28 011	2	1.4571	17 440	Ø 2400 x 5 - I - Bl - 5,h1=20	252	3.1 B	Ausf. c2		43
			3								
1	Mantelblech	1543	4	1.4571	17 440	5 x 1820 x 3524	257	3.1 B	Ausf. c2		54
1	Mantelblech	1543	5	1.4571	17 440	5 x 1820 x 4000	291	3.1 B	Ausf. c2		54
			6								
			7								
4	gew. Scheibe	1543	8	1.4301	17 440	Ø 360 x 7/Ri = 2405	23		Ausf. c2		65
4	Rohr	2458	9	St 33	1615	Ø 273 x 6,3 x 592	89				130
1	Erdungslasche	1017	10	1.4301	17 440	lt.Zng.I 94 053 AS 10 4	-				137
			11								
			12								
1	Geländer R = 1100		13	1.4301	17 440	lt.Zng. I 94 053 AS 07 2	45		komplett		111
			14								
			15								
			16								
1	Lasche für Bergesicherungsgerät	1017	17	1.4301	17 440	lt. ZNr. I 94 053 AS 08 4	2		BC-Norm 11.1		136
			18								
			19								
1	Lasche für Tankdachdüse	1017	20	1.4301	17 440	lt. ZNr. I 94 053 AS 17 4	0,5				139A
			21								
			22								
2	Futterblech	1543	23	1.4301	17 440	lt.Zng.I 94 053 AS 12 4	2,5				146
2	Hebelaschen	1543	24	1.4301	17 440	lt.Zng.I 94 053 AS 12 4	3,5				148
			25								
10	Sattelblech für Rohrhalterungen		26	1.4571	17 440	6 x 100 x 100	5		(lose mitliefern)		47
			27								
			28								
1	Fabrikschild		29	1.4301	17 440	BERTSCH-Standard	0,5				L
1	Halterung	1543	30	1.4301	17 440	lt. ZNr. I 94 053 AS 18 4	1		BC-Norm 9.27		149

JOSEF BERTSCH		Gehört zu/apparting to				Stückliste / part list:			Blatt 4 v. 6		
KESSEL-UND MASCHINENFABRIK BLUDENZ-VORARLBERG		Lagertank 10 m3 349.1, 350.1				I 94 053 AG 02 4					
Datum, Name / date, name						Besteller/client:		Gewicht/Seite, weight/page:		Datum:	
10.05.94 Meyer						Biochemie Kundl		35,5 kg		27.06.94	
Stück	Gegenstand	DIN	Pos.	Werkstoff	DIN	Rohmaße	Gewicht:	Attest	Bemerkung	E.T.Z.	Ma.
pieces	object	standard	ser.No	material	standard	base size	weight:	cert.	remark	Nr.:	Pos.
2	glatter Flansch S10 + 11	2576	61	1.4571	17 440	B 50 x 60,3	5	Stemp.			94
2	Stutzen S10 + 11	2463	62	1.4571	17 455	Ø 60,3 x 2,9 x 395	3				117
2	Rohrbogen S10 + 11	2605	63	1.4571	17 455	45° - Ø 60,3 x 2,9	1				122
2	Rohr S10 + 11	2463	64	1.4571	17 455	Ø 60,3 x 2,9 x 416	2				117
2	Blindflansch S10 + 11	2527	65	1.4571	17 440	B 50, PN 10	6	Stemp.			99
2	Flachdichtung S10 + 11	2690	66	Teflon		Ø 107/Ø 61 x 2	-				174
8	Sechskantschr. S10 + 11	931	67	A2	267	M 16 x 60	1				157
8	Sechskantmu. S10 + 11	934	68	A2	267	M 16	-				163
			69								
			70								
1	glatter Flansch S12	2576	71	1.4571	17 440	B 25 x 33,7	1	Stemp.			95
1	Stutzen S12	2463	72	1.4571	17 455	Ø 33,7 x 2,6 x 410	1				118
1	Rohrbogen S12	2605	73	1.4571	17 455	45° - Ø 33,7 x 2,9	-				123
1	Rohr S12	2463	74	1.4571	17 455	Ø 33,7 x 2,6 x 419	0,5				118
1	Blindflansch S12	2527	75	1.4571	17 440	B 25, PN 10	1	Stemp.			100
1	Flachdichtung S12	2690	76	Teflon		Ø 70/Ø 35 x 2	-				175
4	Sechskantschr. S12	931	77	A2	267	M 12 x 50	0,5				158
4	Sechskantmu. S12	934	78	A2	267	M 12	-				164
2	Flachstahl S12	1017	79	1.4301	17 440	30 x 5 x ca. 250	0,5		anpassen		139
			80								
1	glatter Flansch S13	2605	81	1.4571	17 440	B 100 x 114,3	4	Stemp.			92
1	Stutzen S13	2463	82	1.4571	17 455	Ø 114,3 x 3,6 x 224	2				115
			83								
			84								
1	glatter Flansch S14	2605	85	1.4571	17 440	B 50 x 60,3	2,5	Stemp.			94
1	Stutzen S14	2463	86	1.4571	17 455	Ø 60,3 x 2,9 x 213	1				117
1	Blindflansch S14	2527	87	1.4571	17 440	B 50, PN 10	3	Stemp.			99
1	Flachdichtung S14	2690	88	Teflon		Ø 107/Ø 61 x 2	-				174
4	Sechskantschr. S14	931	89	A2	267	M 16 x 60	0,5				157
4	Sechskantmu. S14	934	90	A2	267	M 16	-				163

JOSEF BERTSCH		Gehört zu/apparting to				Stückliste / part list:			Blatt 6 v. 6		
KESSEL-UND MASCHINENFABRIK BLUDENZ-VORARLBERG		Lagertank 10 m3 349.1, 350.1				I 94 053 AG 02 4					
Datum, Name / date, name		Besteller/client:				Gewicht/Seite, weight/page:		Datum:			
10.05.94	Meyer	Biochemie Kundl				0,0 kg		27.06.94			
Stück	Gegenstand	DIN	Pos.	Werkstoff	DIN	Rohmaße	Gewicht:	Attest	Bemerkung	E.T.Z.	Ma.
pieces	object	standard	ser.No	material	standard	base size	weight:	cert.	remark	Nr.:	Pos.
	Reserveteile:										
2	Flachdichtung	2690		Teflon		Ø 70 / Ø 35 x 2	-				175
6	Flachdichtung	2690		Teflon		Ø 107 / Ø 61 x 2	-				174
4	Flachdichtung	2690		Klinger SIL	C-4300	Ø 82/Ø 43 x 2	-				202
1	Sechskantschrauben	931		A2	267	M 12 x 50	-				158
2	Sechskantschrauben	931		A2	267	M 16 x 60	-				157
1	Sechskantschrauben	931		A2	267	M 16 x 80	-				155
2	Sechskantmuttern	934		A2	267	M 12	-				164
6	Sechskantmuttern	934		A2	267	M 16	-				163
2	Mannlochdichtung			siliconkern/teflonummantelt		Ø 8 x i Ø 600	-				

BESCHEINIGUNG /
CERTIFICATE

EN 10204 3.1 B

LAGERTANK 349.1

BIOCHEMIE Ges.m.b.H., A-6250 Kundl

Der mit nachstehenden Angaben auf dem Fabrikschild bezeichnete Behälter
The boiler marked with the following dates on the name plate

Fabr. Nr.: mfr's serial no.:	10610	Baujahr: year built:	1994
zul. Betriebsüberdruck: max. operating pressure:	1 / -0,25 bar	zul. Betriebstemperatur: max. operating temperature:	100 / -10 °C
Inhalt: capacity:	11100 l		

wurde einer
was subjected to aWasserdruckprüfung mit
water pressure test with1,3 bar*)
bar.*)stehend oben
vertical topLuftdichtheitsprobe mit
gas-leak test withbar*)
bar.*)~~Standfestigkeits- und Dichtheitsprobe mit Wasserfüllung durch~~
~~stability and leak test with water filling during~~~~Stunden*)~~
~~hours.*)~~unterzogen.
tested.

Die Ausführung entspricht der beigehefteten Zeichnung*)

The construction corresponds with the attached drawing.*)

JOSEF BERTSCH

Gesellschaft m. b. H. & Co

Kessel- und Maschinenfabrik
Qualitätswesen*i. A. Martinek***Der Werksachverständige**
quality assurance
(Martinschek)*) nicht zutreffendes streichen
delete as necessary1994-08-16
Datum / date

BESCHEINIGUNG /

EN 10204 3.1 B

CERTIFICATE

LAGERTANK 350.1**BIOCHEMIE Ges.m.b.H., A-6250 Kundl**

Der mit nachstehenden Angaben auf dem Fabrikschild bezeichnete Behälter
The boiler marked with the following dates on the name plate

Fabr. Nr.: mfr's serial no.:	10611	Baujahr: year built:	1994
zul. Betriebsüberdruck: max. operating pressure:	1 / -0,25 bar	zul. Betriebstemperatur: max. operating temperature:	100 / -10 °C
Inhalt: capacity:	11100 l		

wurde einer
was subjected to a

Wasserdruckprüfung mit water pressure test with	1,3 bar*) bar.*)	stehend oben vertical top
---	----------------------------	-------------------------------------

Luftdichtheitsprobe mit gas leak test with	bar*) bar.*)
--	------------------------

Standfestigkeits- und Dichtheitsprobe mit Wasserfüllung durch stability and leak test with water filling during	Stunden*) hours.*)
---	------------------------------

unterzogen.
tested.

Die Ausführung entspricht der beigehefteten Zeichnung*)

The construction corresponds with the attached drawing.*)

JOSEF BERTSCH

Gesellschaft m. b. H. & Co

Kessel- und Maschinenfabrik
Qualitätswesen

i.A. Martyschek

Der Werksachverständige
quality assurance
(Martinschek)

*) nicht zutreffendes streichen
delete as necessary

1994-08-16
Datum / date

Gruppe:

FERTIGUNGSPRÜFPLAN FÜR BEHÄLTER

Blatt 1 von 3

Ag Nr.: I 53/94-2

Fabr.Nr.: 10610

Vorschrift: ÖWBV

Kunde: Biochemie-Kund1

Bezeichnung: Lager tank 10m³

Abnahme: Markinscher

Prüfung	Datum	Prüfer	Prüfung	Datum	Prüfer
<input checked="" type="checkbox"/> Bodenanrit	22-06-94	Ullrich	<input type="checkbox"/> 1st-Maß-Zeichnung		
<input checked="" type="checkbox"/> Schutzanrit	05-07-94	Ullrich	<input type="checkbox"/> Ausführungskontrolle		
<input checked="" type="checkbox"/> LN geschweißt	13-07-94	Ullrich	<input checked="" type="checkbox"/> Transportfreigabe	94-08-18	Ullrich
<input checked="" type="checkbox"/> RH geschweißt	94-02-18	Ullrich	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Anordnung LN	13-07-94	Ullrich	<input type="checkbox"/>		
<input type="checkbox"/> Hauptachsen			<input type="checkbox"/>		
<input checked="" type="checkbox"/> Sattelblech(Boden)			<input type="checkbox"/>		
<input checked="" type="checkbox"/> Behälterfüße	28-06-94	Ullrich	Kundenabnahmen:		
<input checked="" type="checkbox"/> Rohrhalterung			<input type="checkbox"/> Zwischenabnahme		
<input type="checkbox"/> Verkantung			<input checked="" type="checkbox"/> Endabnahme	94-08-16	
<input type="checkbox"/> Bühnen- und Lattenachsen			<input type="checkbox"/> Anstrichkontrolle		
<input checked="" type="checkbox"/> Fertigeschild		Markinscher	<input type="checkbox"/> Vollständigkeitskontrolle		
<input checked="" type="checkbox"/> Kranöse	✓		Sonstiges:		
<input checked="" type="checkbox"/> Bräunungsfläche	✓		<input type="checkbox"/> Schweißer		
	✓		<input type="checkbox"/> Toth Peter		
			<input checked="" type="checkbox"/> Druckprobe	94-08-16	Ullrich
			<input type="checkbox"/> 1,3 bar		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		
			<input type="checkbox"/>		

Ausgestellt am 94-06-22 von Markinscher

BERTSCH

Kessel- und Maschinenfabrik, 5700 Bludenz/Vorarlberg

Standardkopfe

Gruppe:

FERTIGUNGSPRÜFPLAN FÜR BEHÄLTER

Blatt 2 von 3

Ar.Nr.: I 53/94-2

Fabr.Nr.: 10611

Vorschrift: ÖWBV

Kunde: Biochemie-kunde

Bezeichnung: Lager tank 10m³

Abnahme: Markinsler

Prüfung	Datum	Prüfer	Prüfung	Datum	Prüfer
<input checked="" type="checkbox"/> Bodenanrit	27-06-94	Ullah	<input type="checkbox"/> Ist-Maß-Zeichnung		
<input checked="" type="checkbox"/> Stützankrit	05-07-94	Ullah	<input type="checkbox"/> Ausführungskontrolle		
<input checked="" type="checkbox"/> LN geschweißt	13-07-94	Ullah	<input checked="" type="checkbox"/> Transportfreigabe	94-08-18	Ullah
<input checked="" type="checkbox"/> RK geschweißt	94-07-20	Ullah	<input type="checkbox"/>		
<input checked="" type="checkbox"/> Anordnung LN	130794	Ullah	<input type="checkbox"/>		
<input type="checkbox"/> Hauptbohren			<input type="checkbox"/>		
<input checked="" type="checkbox"/> Sattelschach(Boden)			<input type="checkbox"/>		
<input checked="" type="checkbox"/> Behälterfüße	28-06-94	Ullah	Kundenabnahmen:		
<input checked="" type="checkbox"/> Rohrhalterung			<input type="checkbox"/> Zwischenabnahme		
<input type="checkbox"/> Verkürzung			<input checked="" type="checkbox"/> Endeabnahme	94-08-16	
<input type="checkbox"/> Böhlen- und Leiterlöcher			<input type="checkbox"/> Anstrichkontrolle		
<input checked="" type="checkbox"/> Fertigeschild	✓		<input type="checkbox"/> Vollständigkeitskontrolle		
<input checked="" type="checkbox"/> Kranbose	✓		<input type="checkbox"/>		
<input checked="" type="checkbox"/> Erdungslösche	✓		sonstiges:		
			<input type="checkbox"/> Schweisse		
			<input type="checkbox"/> Toth Peter		
			<input checked="" type="checkbox"/> Druckprobe	94-0816	Ullah
			1,3 bar		
			<input type="checkbox"/>		
			<input type="checkbox"/>		

Besgerichtet an: 94-06-22 von Markinsler

BERTSCH**J. BERTSCH**

Ges.m.b.H. & Co.
Kessel- u. Maschinenfabrik - Industrieanlagen
BLUDENZ-AUSTRIA

Werkstoffklärung certificate

Bludenz, 94-08-18 ha

Besteller BIOCHEMIE Ges.m.b.H., A-6250 KUNDL
purchaser

Bauwerk
project

LAGERTANK 349.1

Baujahr 1994
year built

Fabriksnr. 10610
serial-no.

Bestell Nr.: 030/45355548
order no.:

AB- Nr.:
job no.:

194/4-53

Kenn- nr. identi- fication no.	Pos.Nr. item-no.	Bezeichnung designation	Blech- bzw. Probenr. plate- and/or test specimen no.	Schmelze-Nr. cast-no.	Qualität quality	Attest Nr. certificate no.
	1	Klöpferboden Ø 2400 x 6		01AJ00 A	1.4571	119674 09/1
	2	Klöpferboden Ø2400 x 5		T 244048	1.4571	WB 94-2208
	4	Mantelblech - 1. Schuß	5mm	T 348045	1.4571	94/0008788
	5	Mantelblech - 2. Schuß	5mm	T 348045	1.4571	94/0008788

Stutzen, Flansche, Schrauben, Muttern div. Kleinteile

KLEINZEUGERKLÄRUNG...

ACERINOX, S.A.
 FABRICA DEL CAMPO
 DE GIBRALTAR
 PALMONES (LOS BARRIOS)
 T.FNO. (34) - 36 - 62 82 00
 FAX (34) - 36 - 62 82 01
 P.O. BOX, 83
 11570 LOS BARRIOS (CADD)

INSPECTION CERTIFICATE

CERTIFICADO DE INSPECCION

ACCORDING TO
 SEGUN EN 10204

CERTIFICATE No. 119674 09 / 1
 CERTIFICADO Nº

CUSTOMER
 CLIENTE

VALINOX ITALIA SRL
 VIA DEI FRASSINI, 3
 36100 VICENZA

ITALIA

Our order no.

N/PEDIDO AE95562

Your order no.

S/PEDIDO 2270/92

GRADE FINISH
 MATERIAL ACABADO
 Axx 280
 TP-316Ti No. 1

STEELMAKING PROCESS

PROCESO DE ACERIA

A.O.D.

REQUIREMENTS

NORMAS APLICABLES
 ASTM-A-240/91; A-480/91

TRADE MARK



INSPECTOR'S STAMP

SELLO DEL FABRICANTE

SELLO DEL INSPECTOR

COIL / BOX

CONTENT

DIMENSIONE
 DIMENSIONES

MARKS

QUANTITY

BOBINA/CAJA

CONTENIDO

THICKNESS

WIDTH

LENGTH

MARCA

Nº PIEZAS

PROBETA

ESPESOR

ANCHO

LARGO

00 A

01AJ00 A

6,00

1.500,00

65

1

01AJ00

C

Pos 1

CHEMICAL ANALYSIS COMPOSICION QUIMICA (%)

HEAT NO. COLADA	C	CE	MN	MO	N	NI	P	S	SI	TI
REQUIREMENTS REQUISITOS	0,080	16,000 18,000	2,000	2,000 3,000	0,100	10,000 14,000	0,045	0,030	0,750	0,700
AJ00	0,036	17,121	1,421	2,116	0,020	11,198	0,034	0,003	0,550	0,306

MECHANICAL PROPERTIES CARACTERISTICAS MECANICAS

COIL PROBETA	R _k N/MM ²	R _p 0,2 N/MM ²	A50 %	HRB
REQUIREMENTS REQUISITOS	515,00	205,00	40,00	95,00
01AJ00	581	291	48	82

VALINOX ITALIA SRL
 Via del Frassin, 3
 36100 VICENZA
COPIA CONFORME
ALL'ORIGINALE

INTERGRANULAR CORROSION
 CORROSION INTERGRANULAR
 ASTM-A-262 PRACTICA E

SURFACE AND DIMENSIONAL CONTROL
 INSPECCION SUPERFICIAL Y DIMENSIONAL

REMARKS OBSERVACIONES

SATISFACTORY
 Satisfactoria

Temperatura de hipertemple entre 1050 y 1100 ° C

WORK INSPECTOR
 INSPECTOR

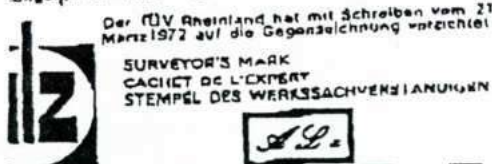
COPIA CONFORME ALL'ORIGINALE
 TOMMASO S.p.A. s.r.l.

J.A. Sirón

PALMONES, 26 MAYO

1.993

naamloze vennootschap
 1891 39 21 11 Telefax 10891 70 23 80
 33066 eldred
 langherp nr 41.061 B.T.W. nr 401 277.914



Der RUV Rheinland hat mit Schreiben vom 21
 März 1972 auf die Gegenzeichnung verzichtet

acier inoxydable, COILS, LAMINES A CHAUD, RECUITS
 DECAPES

Designations - Spécifications - Vorschriften
 Type - Nuance - Quality
 Finish

STM A 240-91A
 IN 17440-07/85
 FNOR NFA 36209-05/90
 NI 7500-75

TYPE 316Ti
 WNR 1.4571
 Z6 CNDT 17-12
 X6 CRNIMOTI 17 12

NO 1
 IIA
 LAC
 NO 1

Dimensions - Abmessungen
 n 5.00 1500.00 0.0

Material (Code Designation)
 Matière
 Werkstoff X6 CRNIMOTI 17 122
 (Normenbeil.)

Particular requirem. Prescri. particul. - Sondervorschriften:
 RB 100-AD W2 ED.01/90 UND W10 ED.11/87 Pos 2

Certificat de Réception C.C.P.U.

Abnahmeprüfung
 nach DIN 50048/3.1.B - NFA 00001/3.1.B - EN 10204/3.1.B

Nr WB 94-2208

Approved as supplier according to
 AD/WD TRD 100 visitation W E 003

PROD. PROCES: Electric Arc Furnace - VOD - Continuous Casting
 PROC. FABRIC: Four à Arc - VOD - Coulée Continue
 FERTIGUNGSABL: Elektro-Lichtbogen Ofen - VOD - Strangguß

Überprüfung als Hersteller
 nach AD/WD - TRD 100 Bericht W E 003

your order n° votre n° de commande Bestell Nr
 LOT 444594/92
 LAC/3S-RAV/GEN93

our order n° - notre n° de commande - Werknrt

63060/243/10

heat n° - n° coule
 Schmelznr
 T244048

roll n° - n° bobine
 Band nr
 24404833

Corrosion test - Contr. Inter - Int. krit. Corr.

ASTM A262 E - 86A OK
 DIN 50914 OK
 AFNOR NFA 05-159 T1 OK

Quenching
 Hypertemps
 Abschreckung

ASTM A240
 1050°C
 forced by air pour air
 bewegte Luft

CHEMICAL ANALYSIS
 COMPOSITION CHIMIQUE
 CHEMISCHE ZUSAMMENSETZUNG

EMEN	LADLE ACIERIE SCHMELZE	PRODUCT PRODUIT STÜCKANAL.
C	0.043	0.043
Mn	1.00	1.01
P	0.030	0.030
S	0.008	0.007
Si	0.39	0.40
Cr	16.60	16.61
Ni	10.64	10.65
Mo	2.18	2.20
Cu		
Ti	0.300	0.301
Co		
N	0.008	
Al		

MECHANICAL PROPERTIES - PROPRIÉTÉS MEC MECH WERTE

TENSILE TEST ESSAI DE TRACTION ZUG VERSUCH	ROOM TEMP. REQ. EXIGE ANFORDERUNG	TEMP. AMB RAUMTEMP.	RAI OBTAINED TEST N° - N° TEST - PROBE	TEMP. °C
ASTM A240	N/PMZ		24404833	
Section - a. Schnitt mm	min	max.	A	E
yield limite é Stirgrenze	205		12.56X	4.95
tensile strength rupture Zuglastwert	515		283	284
elong. % A50 allong. Br Dehn.	40		322	325
			567	570
E 02 /R max %			57	58
hardness durité Härte	HRB	95	59	60
			49	49
grain size astm grain astm Korngröße				
bend pillage Biegeversuch			180°	OK
impact strength test essai de résistance Kerbschlagbiegeversuch				OK

TESTS TO VERIFY BATCH AND QUALITY HAVE BEEN CARRIED OUT
 TESTS DE VERIFICATION DE LA CONFORMITE DE LA LIANCE FOURNIE
 VERWEICHLUNGSPRÜFUNG WURDE DURCHFÜHRT

VISUAL INSPECTION AND DIMENSIONAL CHECK
 EXAMEN VISUEL ET DIMENSIONNEL DE SURFACE
 BESICHTIGUNGEN UND ABMESSUNGEN

EXAMEN VISUEL D'ASPECT DE
 SURFACE ET DIMENSIONS OK

The delivery is in accordance with the order.
 La livraison est conforme aux exigences de la commande.
 Die Lieferung entspricht den Bestellbedingungen.

QUANTITY / WEIGHT MEMO / QUANTITÉ MEMO POIDS LIVRE
 ÜBERSICHT DELIEFERTER GEWICHTE

PACKAGE N° N° DE CAISSE PAKET NR	QTY. QTÉ. ANZ.	NET WEIGHT POIDS NET NETTO GEW	PACKAGE N° N° DE CAISSE PAKET NR	QTY. QTÉ. ANZ.	NET WEIGHT POIDS NET NETTO GEW
21067080	1	10050			
TOTAL/GESAMT		QTY. QTÉ. ANZ.	NET WEIGHT POIDS NET NETTO GEW		10050
		1			

VALINOX ITALIA S.R.L.
 Via del Fratello, 3
 36100 VICENZA
 COPIA CONFORME
 ALL'ORIGINALE

SO.GE.PAK. S.P.A.
 20122 MILANO (ITALIA)

ALZ naamloze vennootschap
 THE SURVEYOR - L'EXPERT - DER WERKSACHVERSTÄNDIGE

Genk the lo San 08.02.1993

PACKING LIST 303347 - I - 9301757

COPIA CONFORME ALL'ORIGINALE
 TOMMASEN & C. s.r.l.
 J. CLARTE

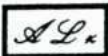
SOM Nr. 3772

ALZ naamloze vennootschap
 Maatschappelijke zetel
 Industrieterrein Genk-Zuid Rechtersoever B 3600 Genk
 Tel. (089) 30 21 11 - Telefax (089) 30 23 80
 Telex 39058 aldodz b
 H.R. Tongeren nr 41.051 - B.T.W. nr 401.277.914



Der TÜV Rheinland hat mit Schreiben vom 21. März 1972 auf die Gegenzeichnung verzichtet

SURVEYOR'S MARK
 CACHET DE L'EXPERT
 STEMPEL DES WERKSSACHVERSTÄNDIGEN



Certificate of test - Mill certificate No 94/0008788
Certificat de Réception C.C.P.U. Nr
Abnahmeprüfzeugnis B
 nach DIN 50049/3.1.B - NFA 00001/3.1.B - EN 10204/3.1.B

Approved as supplier according to AD/WO - TRD 100 statement W E 603
 Überprüfung als Hersteller nach AD/WO - TRD 100 Bericht W E 603
 PROD PROCES: Electric Arc Furnace - VOD - Continuous Casting.
 PROC. FABRIC: Four à Arc - VOD - Coulée Continue.
 FERTIGUNGSABL.: Elektro-Lichtbogen Ofen - VOD - Strangguss.

your order n° - votre n° de cde - Bestell.Nr
 92.209
 L-KO-185
 our order n° - notre n° de cde - Werksnr
 90606/725/01

ROSTFREIER STAHL, BLECHE, WARMGEWALZT, GEGLUEHT UND GEBEIZT (H.R.A.P. I.C.)

heat n°-n° coulée
 Schmelze Nr
 T348045
 coil n°-n° bobine
 Band Nr
 34804528

Spécifications - Spécifications - Vorschriften	Type - Nuance - Quality	Finish	Corrosion test - Corr. inter - Int.krist.Korr.
DIN 17440-07/85	WNR 1.4571	IIA	DIN 50914 : OF

dimensions - Abmessungen	Material (Code Designation)	Quenching	forced air
mm 5.00 2000.00 4000.00	Matière Werkstoff X6 CRNIMOTI 17 122 (Normbez.)	DIN 17440 Hypertempe Abschreckung 1050°C	air poussé bewegter Luft

Particular requirem. - Prescr. particul. - Sondervorschriften:
 TRB 100-AD W2 ED.01/90 UND W10 ED.11/87 Pas 4+5

CHEMICAL ANALYSIS COMPOSITION CHIMIQUE CHEMISCHE ZUSAMMENSETZUNG			MECHANICAL PROPERTIES - PROPRIETES MEC. - MECH. WERTE					
ELEMENTS	LADLE ACIERIE SCHMELZE	PRODUCT PRODUIT STUCKANAL.	TENSILE TEST ESSAI DE TRACTION ZUG VERSUCH		ROOM TEMP. - TEMP. AMB. - RAUMTEMP.		TEMP.	
			EN	N/MM2	REQ-EXIGÉ ANFORDERUNG	OBTAINED - OBTENU TEST N° - N° TEST - PROBE	REQ-EXIGÉ ANFORDER.	OBTAIN.-OBTENU ERGEBNISSE
			10002	min. max.	A (Q) E		min.	
C	0.050	0.045	Section-Q Schnitt mm²		12.58X 4.82			
Mn	1.08	1.10	yield limite él. Str.grenze	0.2% 1.0%	210 245	342 374	338 367	
P	0.029	0.028	tensile strength rupture Zugfestigkeit		500 730	624	625	
S	0.010	0.010	elong. % A5 allong. Br.Dehn.		35	49	49	
Si	0.49	0.48				47	47	
Cr	16.67	16.70	E 0.2 /R max %			54	54	
Ni	10.65	10.65	hardness dureté Härte	HRB		87.0		
Mo	2.11	2.10	grain size astm grain astm Korngröße			180 OK	impact strength test essai de résilience Kerbschlagbiegeversuch	
Cu			TESTS TO VERIFY BATCH AND QUALITY HAVE BEEN CARRIED OUT TESTS DE VERIFICATION DE LA CONFORMITE DE LA NUANCE FOURNIE VERWECHSLUNGSPRÜFUNG WURDE DURCHGEFÜHRT O.B.					
Ti	0.482	0.480	VISUAL INSPECTION AND DIMENSIONAL CHECK EXAMEN VISUEL ET DIMENSIONNEL DE SURFACE BESICHTIGUNGEN UND ABMESSUNGEN KEINEN ERSICHTLICHEN FEHLER, ZULASSIGEN ABWEICHUNGEN O.B.					
Co								
N								
Al								

QUANTITY / WEIGHT MEMO / QUANTITÉ MÉMO POIDS LIVRE ÜBERSICHT GELIEFERTER GEWICHTE					
PACKAGE Nr N° DE CAISSE PAKET NR	QTY. QTÉ. ANZ.	NET WEIGHT POIDS NET NETTO GEW.	PACKAGE Nr N° DE CAISSE PAKET NR	QTY. QTÉ. ANZ.	NET WEIGHT POIDS NET NETTO GEW.
40060560	8				
40060651	8				
TOTAL/GESAMT		QTY. QTÉ. ANZ	NET WEIGHT POIDS NET NETTO GEW.		
		16			

The delivery is in accordance with the order.
 La fourniture est conforme aux exigences de la commande.
 Die Lieferung entspricht den Bestellbedingungen.

WEHA-EDELSTAHL
 POSTFACH 32 22
 40849 RATINGEN
 BRD

ALZ
 naamloze vennootschap
 THE SURVEYOR OF THE FACTORY
 DE WERKSSACH-VERSTANDIGEN
 Gen. the
 of
 per

 J. OLAERTS

PACKING LIST 403611 - D - 9401699

KLEINZEUGERKLÄRUNG
DECLARATION FOR SMALL PARTS

LAGERTANK 349.1

Fabr.-Nr. 10610

BIOCHEMIE Ges.m.b.H., A-6250 Kundl

Alle Kleinteile wurden aus dem in der Stückliste angegebenen Material gefertigt und entsprechen den technischen Regeln und Spezifikationen, sowie den gesetzlichen Vorschriften und Normen.

IT IS CERTIFIED THAT THE SMALL PARTS ARE MADE OF MATERIAL;
WHICH IS LISTED IN THE DRAWING "MATERIAL-LIST" AND ARE
PRODUCED IN ACCORDANCE TO TECHNICAL RULES AND SPECIFICATIONS.

JOSEF BERTSCH

Gesellschaft mbH & Co

Kessel- und Maschinenfabrik
Qualitätswesen


Der Werkssachverständige

BERTSCH**J. BERTSCH**

Ges.m.b.H. & Co.
Kessel- u. Maschinenfabrik - Industrieanlagen
BLUDENZ-AUSTRIA

Werkstoffklärung certificate

Bludenz, 94-08-18 ha

Besteller purchaser	BIOCHEMIE Ges.m.b.H., A-6250 KUNDL	Bauwerk project	LAGERTANK 350.1	Baujahr year built	1994
				Fabriksnr. serial-no.	10611

Bestell Nr.: order no.:	030/45355548	AB- Nr.: job no.:	I94/4-53
-----------------------------------	--------------	-----------------------------	----------

Kenn- nr. identi- fication no.	Pos.Nr. item-no.	Bezeichnung designation	Blech- bzw. Probenr. plate- and/or test specimen no.	Schmelze-Nr. cast-no.	Qualität quality	Attest Nr. certificate no.
	1	Klörperboden Ø 2400 x 6		01AJ00 A	1.4571	119674 09/1
	2	Klörperboden Ø2400 x 5		T 244048	1.4571	WB 94-2208
	4	Mantelblech - 1. Schuß	5mm	T 348045	1.4571	94/0008788
	5	Mantelblech - 2. Schuß	5mm	T 348045	1.4571	94/0008788

Stutzen, Flansche, Schrauben, Muttern div. Kleinteile

KLEINZEUGERKLÄRUNG...

ACERINOX S.A.
 FABRICA DEL CAMPO
 DE GIBRALTAR
 PALMONES (LOS BARRIOS)
 T.FNO. (34) - 86 - 82 83 00
 FAX (34) - 86 - 82 83 01
 P.O. BOX 83
 11570 LOS BARRIOS (CADIZ)

INSPECTION CERTIFICATE

CERTIFICADO DE INSPECCION

ACCORDING TO EN 10204
 SEGUN

CERTIFICATE No. 119674 09 / 1
 CERTIFICADO Nº

CUSTOMER CLIENTE VALINOX ITALIA SRL VIA DEI FRASSINI, 3 36100 VICENZA ITALIA	Our order no. N/PEDIDO AE9556Z Your order no. S/PEDIDO 2270/9Z
---	---

REQUIREMENTS NORMAS APLICABLES ASTM-A-240/91; A-480/91	GRADE FINISH MATERIAL ACABADO A280 TP-316Ti No. 1 STEELMAKING PROCESS PROCESO DE ACERIA A.O.D.
--	--

TRADE MARK SELLO DEL FABRICANTE		INSPECTOR'S STAMP SELLO DEL INSPECTOR
---	--	---

COIL / BOX	CONTENT	DIMENSIONES			MARKS	QUANTITY	
		THICKNESS	WIDTH	LENGTH		NO PIEZAS	PROBETA
BOBINA/CAJA	CONTENIDO	ESPESOR	ANCHO	LARGO	MARCA	Nº	PROBETA
00 A	01AJ00 A <i>Pos 1</i>	6,00	1.500,00		65	1	01AJ00 C

CHEMICAL ANALYSIS COMPOSICION QUIMICA (%)

HEAT NO.	C	CU	MN	MO	N	NI	P	S	SI	TI
REQUIREMENTS		16,000		2,000		10,000				
REQUISITOS	0,080	18,000	2,000	3,000	0,100	14,000	0,045	0,030	0,750	0,700
AJ00	0,036	17,121	1,421	2,116	0,020	11,198	0,034	0,003	0,550	0,206

MECHANICAL PROPERTIES CARACTERISTICAS MECANICAS

COIL	RE.	Rp 0.2	A50	HRB
PROBETA				
REQUIREMENTS	515,00	205,00	40,00	95,00
REQUISITOS				
01AJ00	581	291	48	82

VALINOX ITALIA SRL
 Via del Frassini, 3
 36100 VICENZA
COPIA CONFORME
ALL'ORIGINALE

SURFACE AND DIMENSIONAL CONTROL INSPECCION SUPERFICIAL Y DIMENSIONAL

SATISFACTORY
 Satisfactoria

WORK INSPECTOR INSPECTOR

J.A. Simón
 PALMONES, 26 MAYO 1.993

INTERGRANULAR CORROSION CORROSION INTERGRANULAR ASTM-A-262 PRACTICA E

REMARKS OBSERVACIONES

Temperatura de hipertemple entre 1050 y 1100 ° C

COPIA CONFORME AL ORIGINAL
 TOMADA DE VALINOX S.R.L.

SAM Nr. 3772

naamloze vennootschap
 1881 JP 21 11
 13058 scheidg B
 ingepn nr 41.051 B.T.W. nr 401 277.014

Certificat de Réception C.C.P.U.

Nr WB 94-2208

Abnahmeprüfung
 nach DIN 50048/3.1.B - NFA 00001/3.1.B - EN 10204/3.1.B

Approved as supplier according to
 AD/NO TRD 100 visitment W E 003

PROD PROCES: Electric Arc Furnace - VOD - Continuous Casting
 PROC. FABRIC: Four à Arc - VOD - Coulée Continue
 FERTIGUNGSDL: Elektro-Lichtbogen Ofen - VOD - Strangguss

Überprüfung als Hersteller
 nach AD/NO - TRD 100 Bericht W E 003

our order n° - notre n° de commande - Werkant

your order n° - votre n° de commande - Bestell Nr
LOT 444594/92
LAC/3S-RAV/GEN93

63060/243/10

heat n° - n° coule
 Schmelz n° - n° Schmelz
T244048
 roll n° - n° bobine
 Band n° - n° Band
24404833

**acier inoxydable, COILS, LAMINES A CHAUD, RECUITS
 DECAPES**

Designations - Spécifications - Vorschriften	Type - Nuance - Quality	Finish	Corrosion test - Corr. Inter - Int. crit. Corr.
STM A 240-91A IN 17440-07/85 FNOR NFA 36209-05/90 NI 7500-75	TYPE 316Ti WNR 1.4571 Z6 CNDT 17-12 X6 CRNIMOTI17 12	NO 1 IIA LAC NO 1	ASTM A262 E - 86A 2OK DIN 50914 2OK AFNOR NFA 05-159 T1 2OK

Dimensions - Abmessungen	Material (Code Designation)
n 5.00 1500.00 0.0	Matière Werkstoff Inhaltsl. X6 CRNIMOTI 17 122

Quenching
Hypertemps
Abkühlung
ASTM A240
1050°C
forced air pour
bewegter Luft

Particular requirem. - Prescr. particul. - Sondervorschriften:
 RB 100-AD W2 ED.01/90 UND W10 ED.11/87

Pos 2

CHEMICAL ANALYSIS COMPOSITION CHIMIQUE CHEMISCHE ZUSAMMENSETZUNG		MECHANICAL PROPERTIES - PROPRIETES MEC MECH WERTE			TEMP. °C			
EMEN	LADLE ACIERIE SCHMELZE	PRODUCT PRODUIT STUCKANAL.	TENSILE TEST ESSAI DE TRACTION ZUG VERSUCH ASTM A240	ROOM TEMP. REQ.-EXIGE ANFORDERUNG N/MM2	TEMP. AMB OBTAINED TEST N° - N° TEST - PROBE A E	RAUMTEMP. ERGEBNISSE	REQ.-EXIGE ANFORDER.	OBTAIN.-OBTENU ERGEBNISSE
C	0.043	0.043	Section - a Schnitt mm	min	max.	12.56X	min.	
Mn	1.00	1.01	yield limite δl	205		283		
P	0.030	0.030	Str.grenze	515		322		
S	0.008	0.007	tensile strength rupture Zuglastwert			567		
Si	0.39	0.40	elong. % A50	40		57		
Cr	16.60	16.61	Br Dehn. A5			59		
Ni	10.64	10.65	E 02 /R max %			49		
Mo	2.18	2.20	hardness durée H30re	HRB	95	79.5		
Cu	0.300	0.301	grain size astm grain astm Korngröße					
Ti	0.008		band pliage Biegeversuch		180°	OK		
Al			impact strength test essai de résistance Kerbschlagbiegeversuch			OK		

TESTS TO VERIFY BATCH AND QUALITY HAVE BEEN CARRIED OUT
 TESTS DE VERIFICATION DE LA CONFORMITE DE LA NUANCE FOURNIE
 VERWEICHLUNGSPRÜFUNG WURDE DURCHFÜHRT

VISUAL INSPECTION AND DIMENSIONAL CHECK
 EXAMEN VISUEL ET DIMENSIONNEL DE SURFACE
 BESICHTIGUNGEN UND ABMESSUNGEN

**EXAMEN VISUEL D'ASPECT DE
 SURFACE ET DIMENSIONS** OK

The delivery is in accordance with the order.
 La livraison est conforme aux exigences de la commande.
 Die Lieferung entspricht den Bestellbedingungen.

QUANTITY / WEIGHT MEMO / QUANTITE MEMO POIDS LIVRE ÜBERSICHT DELIEFERTER GEWICHTE			
PACKAGE Nr N° DE CAISSE PAKET NR	QTY. QTE. ANZ.	NET WEIGHT POIDS NET NETTO GEW	PACKAGE Nr N° DE CAISSE PAKET NR
21067080	1	10050	
TOTAL/GESAMT		QTY. QTE. ANZ.	NET WEIGHT POIDS NET NETTO GEW
		1	10050

VALNOX ITALIA S.R.L.
 Via del Fratelli, 3
 36100 VICENZA
**COPIA CONFORME
 ALL'ORIGINALE**

30. GE. PAR. S.P.A.
 20122 MILANO (ITALIA)

ALZ naamloze vennootschap
 THE SURVEYOR - L'EXPERT - DER WERKSTÄNDIGE

Gene the to den
 08.02.1993

COPIA CONFORME ALL'ORIGINALE
 TOMMASINI & C. s.r.l.
 J. OLARTE

PACKING LIST 303347 - I - 9301757

SOM Nr. 3772

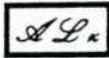
ALZ naamloze vennootschap

Maatschappelijke zetel
 Industrieterrein Genk-Zuid Rechtersveer 8 3600 Genk
 Tel. (089) 30 21 11 - Telefax (089) 30 23 80
 Telex 39058 aldoz b
 H.R. Tongeren nr 41.051 - B.T.W. nr 401.277.914



Der TÜV Rheinland hat mit Schreiben vom 21. März 1972 auf die Gegenzeichnung verzichtet

SURVEYOR'S MARK
 CACHET DE L'EXPERT
 STEMPEL DES WERKSACHVERSTÄNDIGEN



Certificate of test - Mill certificate
 Certificat de Réception C.C.P.U.

No 94/0008788
 Nr

Abnahmeprüfzeugnis B
 nach DIN 50049/3.1.B - NFA 00001/3.1.B - EN 10204/3.1.B

Approved as supplier according to
 AD/WO - TRD 100 statement W E 603
 Überprüfung als Hersteller
 nach AD/WO - TRD 100 Bericht W E 603

PROD PROCES: Electric Arc Furnace - VOD - Continuous Casting.
 PROC. FABRIC: Four à Arc - VOD - Coulée Continue.
 FERTIGUNGSABL: Elektro-Lichtbogen Ofen - VOD - Strangguss.

your order n° - votre n° de cde - Bestell.Nr

our order n° - notre n° de cde - Werksnr

92.209
 L-KO-185

90606/725/01

ROSTFREIER STAHL, BLECHE, WARMGEWALZT, GEGLUEHT UND
 GEBEIZT (H.R.A.P. I.C.)

heat n°-n°coulée
 Schmelze Nr
 T348045

coil n°-n° bobine
 Band Nr
 34804528

Spécifications - Spécifications - Vorschriften	Type - Nuance - Quality	Finish	Corrosion test - Corr. inter - Int.krist.Korr.
DIN 17440-07/85	WNR 1.4571	IIA	DIN 50914 :0I

dimensions - Abmessungen	Material (Code Designation)	Quenching	forced air
mm 5.00 2000.00 4000.0	Matière Werkstoff X6 CRNIMOTI 17 122 (Normbez.)	Hypertrempe Abschreckung	DIN 17440 1050°C air poussé bewegter Lu

Particular requirem. - Prescr. particul. - Sondervorschriften :
 TRB 100-AD W2 ED.01/90 UND W10 ED.11/87

Pos 4+5

CHEMICAL ANALYSIS
 COMPOSITION CHIMIQUE
 CHEMISCHE ZUSAMMENSETZUNG

MECHANICAL PROPERTIES - PROPRIETES MEC. - MECH. WERTE

ELEMENTS	LADLE ACIERIE SCHMELZE	PRODUCT PRODUIT STUCKANAL.	TENSILE TEST ESSAI DE TRACTION ZUG VERSUCH		ROOM TEMP. - TEMP. AMB. - RAUMTEMP.		TEMP.			
			EN	N/MM2	min.	max.	REQ.-EXIGÉ ANFORDERUNG	OBTAINED - OBTENU - ERGEBNISSE TEST N° - N° TEST - PROBE	REQ.-EXIGÉ ANFORDER.	OBTAIN.-OBTENU ERGEBNISSE
			10002					34804528		
			Section-Q.Schnitt mm ²		12.58X	4.82				
C	0.050	0.045	yield limite él. Str.grenze	0.2% 1.0%	210 245		342 374	338 367		
Mn	1.08	1.10	tensile strength rupture Zugfestigkeit		500 730		624 625			
P	0.029	0.028	elong. % A5 allong. Br.Dehn. A50		35		49 49			
S	0.010	0.010					47 47			
Si	0.49	0.48	E 0.2 /R max %				54 54			
Cr	16.67	16.70	hardness dureté Härte	HRB			87.0			
Ni	10.65	10.65								
Mo	2.11	2.10								
Cu			grain size astm grain astm Korngröße							
Ti	0.482	0.480	bend pliage Biegeversuch		180°	OK				
Co			impact strength test essai de résilience Kerbschlagbiegeversuch							
N			TESTS TO VERIFY BATCH AND QUALITY HAVE BEEN CARRIED OUT TESTS DE VERIFICATION DE LA CONFORMITE DE LA NUANCE FOURNIE VERWECHSLUNGSPRÜFUNG WURDE DURCHFÜHRT							
Al			VISUAL INSPECTION AND DIMENSIONAL CHECK EXAMEN VISUEL ET DIMENSIONNEL DE SURFACE BESICHTIGUNGEN UND ABMESSUNGEN							

Q- ferrite
 δ- ferrite

KEINEN ERSICHTLICHEN FEHLER,
 ZULASSIGEN ABWEICHUNGEN O.B.

The delivery is in accordance with the order.
 La fourniture est conforme aux exigences de la commande.
 Die Lieferung entspricht den Bestellbedingungen.

QUANTITY / WEIGHT MEMO / QUANTITÉ MÉMO POIDS LIVRE
 ÜBERSICHT GELIEFERTER GEWICHTE

PACKAGE Nr N° DE CAISSE PAKET NR	QTY. QTÉ. ANZ.	NET WEIGHT POIDS NET NETTO GEW.	PACKAGE Nr N° DE CAISSE PAKET NR	QTY. QTÉ. ANZ.	NET WEIGHT POIDS NET NETTO GEW.
40060560	8				
40060651	8				

WEHA-EDELSTAHL

POSTFACH 32 22

40849 RATINGEN

BRD

ALZ

Gen. the
 of
 der

THE SURVEYOR'S MARK OF WERKSACHVERSTÄNDIGEN

TOTAL/GESAMT

QTY
 QTÉ
 ANZ

16

NET WEIGHT
 POIDS NET
 NETTO GEW

PACKING LIST 403611 - D - 9401699

J. Olaerts
 J. OLAERTS

KLEINZEUGERKLÄRUNG
DECLARATION FOR SMALL PARTS

LAGERTANK 350.1

Fabr.-Nr. 10611

BIOCHEMIE Ges.m.b.H., A-6250 Kundl

Alle Kleinteile wurden aus dem in der Stückliste angegebenen Material gefertigt und entsprechen den technischen Regeln und Spezifikationen, sowie den gesetzlichen Vorschriften und Normen.


IT IS CERTIFIED THAT THE SMALL PARTS ARE MADE OF MATERIAL;
WHICH IS LISTED IN THE DRAWING "MATERIAL-LIST" AND ARE
PRODUCED IN ACCORDANCE TO TECHNICAL RULES AND SPECIFICATIONS.

JOSEF BERTSCH

Gesellschaft mbH & Co

Kessel- und Maschinenfabrik

Qualitätswesen


Der Werkssachverständige



Alfa Laval SaniMidget Ultra Pure

Equipment documentation

Doc. ID No.: TE10Q502

Rev. 2

Page 1 of 4

Order information

Serial No.: 5947

P&ID reference:

Item No.: TE10B001-91

Item Description:

Production Order No.: 66314

SaniMidget 360° 3/4"BSP

Sales Order No.: A4034800



Equipment Documentation

SaniMicro Ultra Pure



Page 2 of 4

Serial No: 5947

Doc. ID no.: TE10Q502

Rev. 2

Declaration of Compliance

Supplier

Alfa Laval Tank Equipment A/S
Baldershoj 19, DK-2635 Ishoj, Denmark
Phone: +45 43558600
FAX.: +45 43558601
E-mail: info@alfalaval.com

Traceability

We as supplier hereby guarantee and certify that the materials and/or parts of the above mentioned equipment(s) have been manufactured in accordance to and comply with the Regulation (EC) No. 1935/2004 of the European Parliament and of the Council of 27 October 2004 on "Materials and articles intended to come into contact with food" regarding traceability.

Compliance to EN 10204 type 3.1 *

We as supplier hereby guarantee and certify that our steel parts, stated in the Steel Parts table in this document, complies with the European Standard EN 10204 of October 2004, Inspection certificate 3.1.

Compliance to the U.S. Food & Drug Administration

We as supplier hereby guarantee and certify that our compound, stated in the Compound table in this document, complies with the U.S. Food & Drug Administration (FDA) Code of Federal Regulations, 21 CFR §177.2415.

Compliance to the United States Pharmacopeia (USP)**

We as supplier hereby guarantee and certify that our compound, stated in the compound table in this document, has been tested and certified by an independent laboratory to be in compliance with the criteria of the U.S. Pharmacopeia, Class VI chapter 88 (version 22 or higher).

TSE (Transmissible Spongiform Encephalopathy) Declaration

We as Supplier hereby declare, under our sole responsibility, that the above stated product never has been in contact with any animal sources. Does not contain, and is not derived from, materials of animal origin. Consequently the product does not contain Specific Risk Materials (SRM's) associated with risk of TSE.
TSE Declarations from our supplier can be forwarded on request.

Surface finish Declaration

In accordance with Alfa Laval quality procedures we as supplier hereby declare that the equipment wetted surfaces finish have a surface finish characteristics in accordance with the specification of the equipment.

- Nominal internal/external roughness Ra = 0.5 μ m (20 micro inch)
 Nominal internal/external roughness Ra = 0.8 μ m (30 micro inch)

* 3.1 certificates are attached to this document

** USP Class VI "Test Result Certificate" and "Declaration of compliance" from subsupplier are attached to this document.

Equipment Documentation

SaniMicro Ultra Pure



Serial No: 5947	Doc. ID no.: TE10Q502	Rev. 2
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Steel Parts, 3.1 traceability

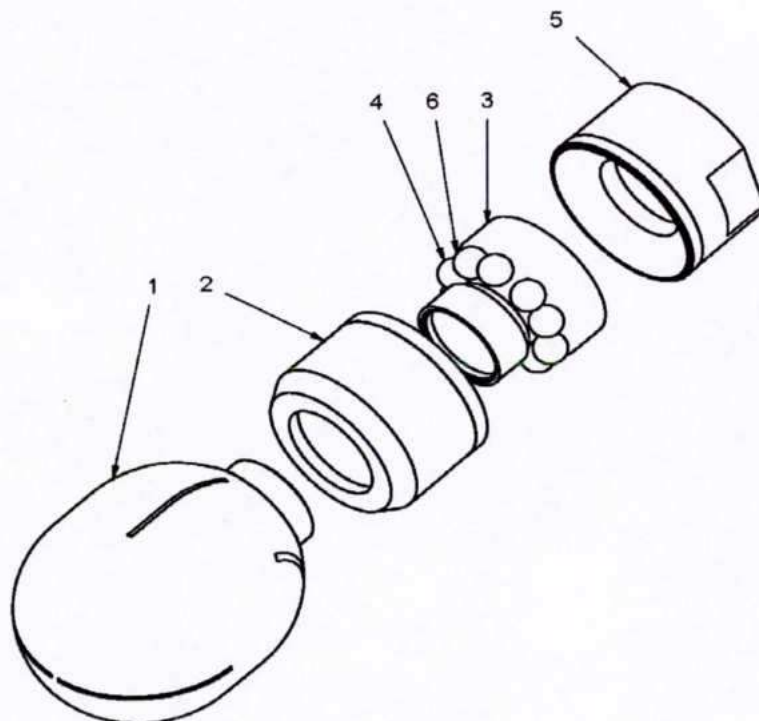
Pos	Part name	Item no.	Qty.	Material	Heat number
1	Cleaner Head	TE10B500	1	AISI 316L	786023
2	Housing	TE10B521	1	SAFF 2205	10ZT0067
3	Rotor	TE10B510	1	SAFF 2205	10ZT0067
4	Ball	TE51F010	8	AISI 316	7S29/09
5	Welding nut	TE10B536	1	AISI 316L	10ZT0050

Polymer parts, Compound ID traceability

Pos	Part name	Item no.	Qty.	Compound ID	Batch/Lot number
6	Ball	TE51F009	8	PTFE	1665

Product specification list

Complete parts overview



Equipment Documentation

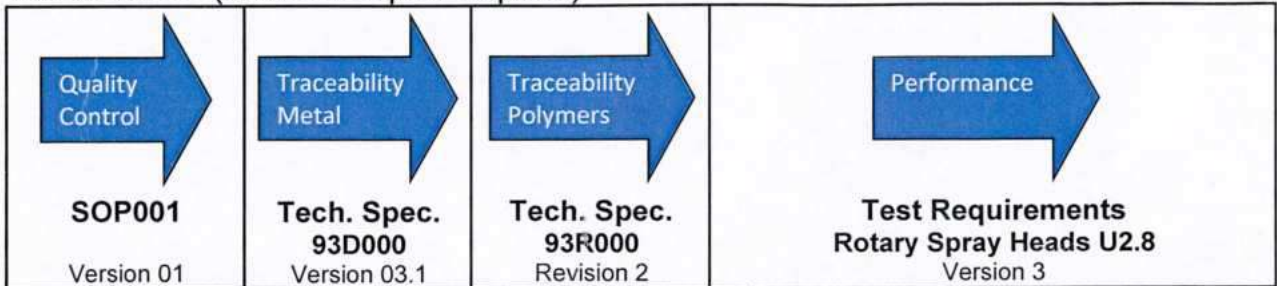
SaniMicro Ultra Pure



Serial No: 5947	Doc. ID no.: TE10Q502	Rev. 2
------------------------	-----------------------	--------

Responsibilities (for internal use only)	
The responsible person from each department who have performed test or entered data to this document must approve and sign. By signing this document the responsible person hereby declares that the instructions are followed and the requirements met in the appropriate SOP or Technical Specification of this document.	
Initials / Sign	Date (DD-MM-YYYY)
MSE	17-12-2010

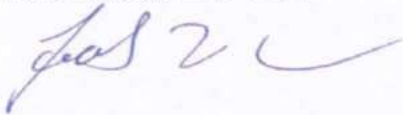
Procedures (available upon request)



Declaration of compliance to Alfa Laval internal quality system

We as supplier hereby declares, under our sole responsibility, that the above stated unique equipment is manufactured, tested and inspected under controlled conditions established by our ISO 9001:2000 Quality System, and complies to the above selected Procedures.

Ishoj, Denmark, 2010-06-11



Jacob Zander Nielsen, Quality Manager, Alfa Laval

Delivery address, Empfänger, Lieu de livraison OUTOKUMPU NORDIC AB FOLKESTA 631 50 ESKILSTUNA SVERIGE	BESTELLER OUTOKUMPU NORDIC AB ABRAMSONS VÄG 2 BOX 1134 631 80 ESKILSTUNA SVERIGE
---	---

Requirements, Anforderungen, Exigences AD 2000-MERKBL. W2 EN 10028-7 ASTM A240/A240M -08 ASME 2007 SEC. II PART A SA-240 ASTM A240/A240M -08 ASME 2007 SEC. II PART A SA-240	Our Order No. / Unser Auftrag Nr. / Notre commande n° 59543	Your order, Ihre Bestellung, Votre commande I93473/AKE
--	---	--

Product, Erzeugnisform, Produit BAND, NICHTROSTEND	Mark of Manufacturer / Zeichen des Lieferwerkes / Signe de producteur OUTOKUMPU	Process / Erzeugungsort / Mode de fusion AOD	Inspector's stamp / Zeichen d. Sachverständigen / Pignon de l'expert
Grade, Werkstoff, Nuance 1.4404 TYPE 316 TYPE 316L	Tolerances / Toleranzen, Tolérances EN ISO 9445 : 2006		
Marking, Kennzeichnung, Marquage 1.4404 2B	Marks, Versandszeichen, Marques		

Line / Reihe / Ligne	Item Position / Poste	Charge-test No. / Schmelz- / Probe Nr. / Coudre n°	Size, Abmessungen, Dimensions	Quantity / Stückzahl / Nombre	Weight, Gewicht, Poids	Finish / Ausführung / Fini
1	2	79964 7	2,0 X 1000 MM		7400 KG	2B
2	3	77424 4	0,7 X 1250 MM		7440 KG	2B
3	3	79852 5	0,7 X 1250 MM		3570 KG	2B
4	4	78296 5	1,25 X 1250 MM		10740 KG	2B
5	7	78602 3	2,5 X 1250 MM		6010 KG	2B

Charge no. / Schmelz- / Coudre n°	Chemical composition, Chemische Zusammensetzung, Composition chimique									
	C %	Si %	Mn %	P %	S %	Cr %	Ni %	MO %	N %	
79964	0,022	0,50	1,77	0,031	0,001	17,1	10,1	2,05	0,045	
77424	0,021	0,46	1,77	0,033	0,003	17,1	10,0	2,06	0,046	
79852	0,025	0,49	1,73	0,034	0,001	17,0	10,1	2,08	0,049	
78296	0,021	0,49	1,74	0,033	0,002	17,0	10,1	2,08	0,040	
78602	0,023	0,45	1,82	0,030	0,001	17,2	10,0	2,06	0,050	

Line / Reihe / Ligne	Location / Ort	Mechanical properties, Mechanische Eigenschaften, Caractéristiques mécaniques							Hardness / Härte, Dursité / HV10
		Rp0.2 / N/mm²	Rp1.0 / N/mm²	Rm / N/mm²	%	A50 %	A80 %		
1	R	314	352	607		53	52	168	
2	R	282	321	630		55	54	153	
3	R	305	336	624		55	54	165	
4	R	299	336	612		54	53	163	
5	R	297	329	576		57	56	166	

ÜBERPRÜFT NACH AD2000-WO MIT ÜBERPRÜFUNG DER GLEICHMÄSSIGKEIT ÜBER DIE BANDLÄNGE.

ZERTIFIZIERT NACH DGRL 92/23/EG DURCH DIE ZERTIFIZIERUNGSSTELLE FÜR BREMSGERÄTE DER TÜV NORD SYSTEMS (KENN-NR. 0045)

Identity test, Verwechslungsprüfung, Contrôle d'identification Size, Abmessungen, Dimensions Surface, Oberfläche, Surface Test of intergran corrosion, Prüfung auf interkrist. Korros. Test de corrosion interstit. EN ISO 3651-2 A: GENUEGEND	O.B. O.B. O.B.	A = Beginning / Anfang / Début E = End / Ende / Fin
---	----------------------	--

AD 2000-MERKBL. W2 DIN 17441 02.97 1.4404 AD 2000-MERKBL. W2 EN 10028-7 1.4401 ASTM A240/UNS S31603	We certify that the above mentioned products comply with the terms of the order contract. Wir bestätigen, dass die Lieferung den Vereinbarungen der Bestellung entspricht. Nous certifions que les produits énumérés ci-dessus sont conformes aux prescriptions de la commande.
--	---

PO 104802.6
ITEM 108509
17/11.09
MAN

This test certificate is made by controlled ADIP-system and is valid without signature.
Dieses Zeugnis wurde von einem überprüften Datenverarbeitungssystem erstellt und ist ohne Unterschrift gültig.
Ce certificat a été établi par un système informatique contrôlé et est valide sans signature.

Outokumpu Stainless Oy
Anne-Maria Salmi

Authorized inspector / **ANNE-MARIA SALMI**
Verwechslungsprüfer / Inspecteur autorisé

FIN-95400 Terno, Finland
Tel. +358 16 4521, Fax +358 16 452 350,
www.outokumpu.com
Domicile: Terno, Finland. Business Identity Code 0223315-9

SuZhou Hengjia
苏州恒加

Inspection Certificate according to DIN 50049/ EN 10088-3.1B
3.1B 测试报告

Manufacturer 制造商	SuZhou Hengjia 苏州恒加	Order No. 订单号:	107792-1	Report No. 报告号:	2010-3-18
Part NO. 零件号	10B510	Part Name 零件名称	Styr/Rotor	Material 材料	2205
Batch/Charge Code 批号/炉号	10ZT0067				

1. Statement: No material confusion of this batch. The identification label was sticked on each box
声明: 本批零件无混料。每箱零件上贴有识别标签。

2. Chemical Composition/化学成分:

Composition/成分	C	Cr	Ni	Mo	Mn	N	P	S	Si
Specification/规格	≤0.03	21.0-23.0	4.5-6.5	2.5-3.5	≤2.0		≤0.03	≤0.02	≤1.0
Test Result/结果	0.014	21.56	4.75	2.61	1.09		0.0220	0.012	0.680

3. Heat Treatment/热处理:

Heat Treatment 热处理	1100°C
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4. Mechanical Properties: See Certificate of Analysis

S/N编号	Item	Yield Point/屈服点	Tensile Strength/抗拉强度	Elongation/延伸率	Test of Hardness/硬度
		MPa (N/mm ²)	MPa(N/mm ²)	(%)	
	Specification/范围	≥450	680-880	≥30	
	Test Result/结果	468.5	763.2	32.1	

We guaranteed that the test result is true and the test results comply with the specification of ASTM.
我们保证测试结果的真实性, 并确认测试结果符合ASTM的规定要求。

Inspector/检验员	PengYanFang	Reviewed By/复核	MengJiang Hua
Date/日期	2010-3-18	Date/日期	2010-3-19

Order: 107792
Item: 10B510
15/6-10 JTP



质量证明书

10B510

Certificate of Analysis

苏州市新诺不锈钢有限公司

SuZhou Xinnuo Stainless Steel Co. Ltd.

用户: CUSTOMER 苏州市恒加金属制品有限公司

TEL:0512-62901953

日期:DATE 2010-03-18

FAX:0512-62901953

炉号 HEAT NO	钢种 GRADE	规格 mm	重量 kg	状态	化学成分CHEMICAL COMPOSITION %										力学实验TENSILE TEST				
					C	Cr	Ni	Mn	Si	S	P	N	Mo	σ 0.2 Mpa	σ b Mpa	δ 5 %	ψ %	HB	
10ZT0067	2205	φ32	626	医密	0.014	21.56	4.75	1.09	0.68	0.012	0.022	0.152	2.61	468.5	763.2	32.1		278	
1. 表面质量、尺寸均符合标准要求 2. 若有质量异议时, 请详告规格、重量等					产品名称: (NAME OF ARTICLE): 不锈钢 执行标准: (EXECUTIVE STANDARD): ASTM										苏州市新诺不锈钢有限公司 				

SuZhou Hengjia
苏州恒加

Inspection Certificate according to DIN 50049/ EN 10204 -3.1B
3.1B 测试报告

Manufacturer 制造商	SuZhou Hengjia 苏州恒加	Order No. 订单号:	110553-1	Report No. 报告号:	2010-7-22
Part NO. 零件号	10B536	Part Name 零件名称	Welding nut BSP	Material 材料	✓ 316L
Batch/Charge Code 批号/炉号	10ZT0050 ✓				

1. Statement: No material confusion of this batch. The identification label was stuck on each box
声明: 本批零件无混料, 每箱零件上贴有识别标签。

2. Chemical Composition/化学成分:

Composition/成分	C	Cr	Ni	Mo	Mn	N	P	S	Si
Specification/规格	≤0.03	16.0-18.0	10.0-14.0	2.0-3.0	≤2.0		≤0.045	≤0.03	≤1.0
Test Result/结果	0.027	16.63	10.10	2.11	1.10		0.0430	0.006	0.043

3. Heat Treatment/热处理:

Heat Treatment 热处理	1100°C
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4. Mechanical Properties: See Certificate of Analysis

S/N编号	Item	Yield Point/屈服点	Tensile Strength/抗拉强度	Elongation/延伸率	Test of Hardness/硬度
		MPa (N/mm ²)	MPa(N/mm ²)	(%)	
	Specification/范围	≥119	490-690	≥35	≤22 (HRC)
	Test Result/结果	219.4	526.8	42.8	161 (HB)

We guaranteed that the test result is true and the test results comply with the specification of ASTM.
我们保证测试结果的真实性, 并确认测试结果符合ASTM的规定要求。

Inspector/检验员	PengYanFang	Reviewed By/复核	MengJiang Hua
Date/日期	2010-7-22	Date/日期	2010-7-23



15/11-10
MAW

质量证明书

Certificate of Analysis

苏州市新诺不锈钢有限

SuZhou Xinnuo Stainless St

用户: CUSTOMER 苏州市恒加金属制品有限公司

TEL:0512-62901953

日期: DATE 2010-07-22

FAX:0512-62901953

炉号 HEAT NO	钢种 GRADE	规格 mm	重量 kg	状态	化学成分CHEMICAL COMPOSITION %										力学实验T		
					C	Cr	Ni	Mn	Si	S	P	N	Mo	$\sigma_{0.2}$ Mpa	σ_b Mpa	δ %	
10ZT0050 ✓	316L ✓	φ36 ✓	648	固溶	0.027	16.63	10.1	1.1	0.043	0.006	0.043		2.11	219.4	526.8	42	
1. 表面质量、尺寸均符合标准要求 2. 若有质量异议时, 请详告规格、重量等					产品名称: (NAME OF ARTICLE): 不锈钢 执行标准: (EXECUTIVE STANDARD): ASTM								苏州市新诺不 质				

SuZhou Hengjia
苏州恒加

Inspection Certificate according to DIN 50049/ EN 10204 -3.1B
3.1B 测试报告

Manufacturer 制造商	SuZhou Hengjia 苏州恒加	Order No. 订单号:	107787-1	Report No. 报告号:	2010-3-18
Part NO. 零件号	11B521	Part Name 零件名称	Kugleholder / House	Material 材料	2205
Batch/Charge Code 批号/炉号	102T0067				

1. Statement: No material confusion of this batch. The identification label was sticked on each box
声明: 本批零件无混料, 每箱零件上贴有识别标签。

2. Chemical Composition/化学成分:

Composition/成分	C	Cr	Ni	Mo	Mn	N	P	S	Si
Specification/规格	≤0.03	21.0-23.0	4.5-6.5	2.5-3.5	≤2.0		≤0.03	≤0.02	≤1.0
Test Result/结果	0.014	21.56	4.75	2.61	1.09		0.0220	0.012	0.680

3. Heat Treatment/热处理:

Heat Treatment 热处理	1100°C
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4. Mechanical Properties: See Certificate of Analysis

S/N编号	Item	Yield Point/屈服点	Tensile Strength/抗拉强度	Elongation/延伸率	Test of Hardness/硬度
		MPa (N/mm ²)	MPa(N/mm ²)	(%)	
	Specification/范围	≥450	680-880	≥30	
	Test Result/结果	468.5	763.2	32.1	

We guaranteed that the test result is true and the test results comply with the specification of ASTM.
我们保证测试结果的真实性, 并确认测试结果符合ASTM的规定要求。

Inspector/检验员	PengYanFang	Reviewed By/复核	MengJiang Hua
Date/日期	2010-3-18	Date/日期	2010-3-19



26/5-10
MAN

113521

质量证明书

Certificate of Analysis

苏州市新诺不锈钢有限公司

SuZhou Xinnuo Stainless Steel Co. Ltd.

TEL:0512-62901953

FAX:0512-62901953


用户: CUSTOMER 苏州市恒加金属制品有限公司

日期: DATE 2010-03-18

炉号 HEAT NO	钢种 GRADE	规格 mm	重量 kg	状态	化学成分CHEMICAL COMPOSITION %										力学实验TENSILE TEST				
					C	Cr	Ni	Mn	Si	S	P	N	Mo	σ 0.2 Mpa	σ b Mpa	δ 5 %	ψ %	HB	
10ZT0067	2205 ✓	φ52 ✓	508	固溶	0.014	21.56	4.75	1.09	0.68	0.012	0.022	0.152	2.61	468.5	763.2	32.1		278	
1. 表面质量、尺寸均符合标准要求 2. 若有质量异议时, 请详告规格、重量等					产品名称: (NAME OF ARTICLE): 不锈钢 执行标准: (EXECUTIVE STANDARD): ASTM										苏州市新诺不锈钢有限公司 				

FROM:

FROM:

	Technical specification Requirements for "Declaration of Compliance for Polymers" Regarding FDA/USP, for suppliers			No: 93R000
	Prep.: DHE	Appr.: BJN	Date: 22.8.2010	Revision: 1 Page: 3/10


Engineering Laboratories, Inc.

Declaration of compliance for Polymers

Supplier order information			
Order no.	64494	Order date	6/3/10

Total no. of pages:	x	No. of attachment pages:	x
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Material information	
Compound type	PTFE
Compound name/ID	Fluon
Batch/Lot no.	1665


Customer and Customer order information			
Customer	Alfa Laval Tank Equipment A/S Baldershoej 19 2635 Ishoej Denmark.		
Customer item number(s)	TE51F009		
Order no.	109144-1	Order date	06/03/10

Declaration of compliance regarding Quality Management System

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the materials and/or parts of the above mentioned product have been manufactured, tested and inspected under controlled conditions established by our quality system and conform to the specifications of the purchase order and drawing(s).

Declaration of compliance regarding Traceability

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the materials and/or parts of the above mentioned product(s) have been manufactured in accordance to and comply with the Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on "Materials and articles intended to come into contact with food" regarding traceability.

 Tank Equipment	Technical specification Requirements for "Declaration of Compliance for Polymers" Regarding FDA/USP, for suppliers			No: 93R000
	Prep.: DHE	Appr.: BJN	Date: 22.8.2010	Revision: 1 Page: 4/10

TSE (Transmissible Spongiform Encephalopathy) Declaration

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the materials and/or parts of the above mentioned product never has been in contact with any animal sources. Does not contain, and is not derived from, materials of animal origin.
 Consequently the product does not contain Specific Risk Materials (SRM's) associated with risk of TSE.

Compliance to the U.S. Food & Drug Administration CFR 21 § 177.2415

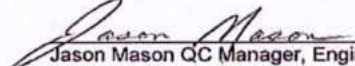
We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that our compound *Fluon G201* complies with the U.S. Food & Drug Administration (FDA) Code of Federal Regulations, Title 21, part 21CFR 177.2415.

Compliance to the United States Pharmacopoeia (USP)

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the compound designated Fluon G201 has been evaluated according to the test procedures contained in the USP Class VI standard chapter 88 (version 22 or higher).
 The test report which proves the above was performed by Namsa and recognized by project number 809764.

We, Engineering Laboratories, Inc. as supplier hereby guarantee and certify that the compound used for the above stated order is manufactured and registered by Engineering Labs as the above stated 1665.

Engineering Laboratories, Inc. certify that the above information's are correct as contained in the records of the company. The below signature is given by the company quality responsible independent of the manufacturing unit.


 Jason Mason QC Manager, Engineering Laboratories, Inc.

Company information			
Name	Engineering Laboratories	Tel.	201 337 8116
Address 1	360 West Oakland Ave	Fax	201 337 2467
Address 2		E-mail	sales@plasticballs.com
City, Country	Oakland NJ 07436 USA	WWW	www.plasticballs.com

Document is kept and revision is maintained in Productstream.

Order: 10 9144
 Item: 51F009
 26/8-10 JTP



ENGINEERING LABORATORIES, INC.

360 West Oakland Avenue • Oakland, New Jersey 07436
Phone: (201) 337-8116 • Fax: (201) 337-2467
www.plasticballs.com

CERTIFICATE OF COMPLIANCE

This is to certify that the product listed below complies with the referenced purchase order and Engineering Laboratories, Inc. specifications and standards.

- Customer:
**ALFA LAVAL TANK EQUIPMENT A/S
POSTBOKS 1149
BALDERSHOJ 19
ISHOEJ, DK-2635
DENMARK**
- Description of Part/Product:
.2422 VIRGIN TEFLON BALL
- Product Part Number: **BL02422TVNA2BC**
- Quantity Shipped: **30,000**
- Customer PO# **109144-1**
- Date Shipped: **8/19/2010**

Signed: 
Daniel S. Mason
President

Date: 8/19/2010

Order: 109144
Item: 51F009
24/8-10 JTP



ENGINEERING LABORATORIES, INC.

360 West Oakland Avenue • Oakland, New Jersey 07436
Phone: (201) 337-8116 • Fax: (201) 337-2467
www.plasticballs.com

ALFA LAVAL TANK EQUIPMENT
BLADERSHOJ 19
POSTBOKS 1149
2635 ISHOJ
DENMARK

Attn. Jannik Bonde

DECLARATION OF CONFORMITY

We, Engineering Laboratories, Inc. hereby declare, that the following products are produced from virgin Teflon (PTFE) material and agrees with FDA-regulation 21CFR 177.1550.

<u>Client order no.</u>	<u>Client part no.</u>	<u>Product Desc.</u>	<u>Quantity</u>	<u>Ship Date</u>
109144-1 ✓	TE51F009 ✓	.242" Teflon Ball	30,000	08/19/10

Signed: 
Daniel S. Mason
President

Date: 08/19/10

24/8-10
MAN

ADH: ADAM *EX 21-337-2167*

Allstate Plastics, Inc.

237 Raritan St., South Amboy, New Jersey 08879 • Telephone (732) 721-4024 • Fax (732) 727-4182

CERTIFICATION OF CHEMICAL AND PHYSICAL ANALYSIS

We certify that the chemical and physical properties of the materials used in the manufacture of the item(s) under this purchase order are in full accord with the requirements and specifications contained therein.

SUPPLIED FOR:	<u>ENGINEERING LABS</u>	P.O #	<u>1665</u> ✓
QUANTITY:	<u>1,002 FT X 6 FT</u>	DESCRIPTION	<u>17/64" DIA ROD</u> ✓
TYPE:	<u>EXTRUDED</u>	GRADE	<u>VIRGIN</u> ✓
LOT #:	<u>201-0055263B</u>	MATERIAL SPEC.	<u>VIRGIN PTFE</u>

ORDER SHIPPED ON 8-30-10

PHYSICAL TEST REPORTS:

Customer did not require actual test reports covering the materials supplied for this purchase order. However, historical testing on these same materials and sizes have shown the results were compliant to the above material specification requirements

TENSILE STRENGTHS	_____	psi
ELONGATION	_____	%
SPECIFIC GRAVITY	_____	
DIELECTRIC STRENGTH	_____	V/M
DIMENSIONAL STABILITY	_____	%

We certify that the manufacture of the products listed above was produced with out the use of any ozone depleting chemicals or those containing any mercury or mercury compounds

We certify that the manufacture of the products listed above was produced at our manufacturing location at 237 Raritan Street South Amboy, NJ USA.

8-25-10
Date

[Signature]
LYDIA RUIZ

Order: 109144
Item: 51F009
26/8-10 JTP



Chemicals Americas, Inc.

AGC CHEMICALS AMERICAS, INC.
229 E. 22nd Street
Bayonne, NJ 07002
Phone: (201) 858-8900
Fax: (201) 858-8970
http://www.agcchem.com

November 5, 2004

Rich Fisher
Allstate Plastics
237 Karitan Street
South Amboy, NJ 08879

Dear Rich:

This letter is to convey that Polytetrafluoroethylene (PTFE) meets the material requirements of 3-A Sanitary Standards for multiple-use as product contact and/or cleaning solution contact surfaces in equipment for production, processing, and handling of milk and milk product(s) (Standard Number 20-22).

Fluon® grade G201 is 100% PTFE and is compliant with the compositional and extraction requirements for FDA regulation 21 CFR 177.1550 and USP Class VI certification and can conform to the 3-A Sanitary Standards.

Only processed PTFE, sintered at high temperatures common in the industry, complies with FDA regulations, USP certification, and 3-A Sanitary Standards.

If you have any questions or need additional information, please contact me at (201) 858-4762. Thank you for your business, and we look forward to continue working with Allstate Plastics as one of our most important customers.

Sincerely,

Jonathan C. Clapp
Fluon® PTFE Technical Service Group Leader

Fluon® is a registered trademark of Aulki Glass Company, LTD.

The information provided herein is related only to the specific product designated and may not be applicable when such product is used in combination with any other materials or in any process. NO REPRESENTATION OR WARRANTY, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER. The user of this product has the sole responsibility to determine the suitability of the product for any use and manner of use intended. This document may be revised after its issuance, and the user is advised to use the latest revision.

The information and recommendations in this document are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of AGC Chemicals America, Inc. and users should make their own tests to determine the suitability of these products for their own particular purposes. State-of-the-art health, therefore, should not be construed as representations or warranties.

Order: 109144
Item: 51F009
26/8-10 JTP



NAMSA
Ensuring Medical Device
Safety and Compliance

Corp. Office: 3261 Bay Road, Northwood, OH 43061-1377 / 419-906-5155 / Fax 419-906-7584
3170 Cuthbertson Blvd., Kennerly, GA 30145-7011 / 770-627-2181 / Fax 770-627-5087
9 Morgan, Irvine, CA 92618-2018 / 419-961-2110 / Fax 919-951-1298
Affiliates: France • Germany • Israel • Japan • United Kingdom

Confidential
TCLAS_V15

Derrick Mitchell
AGC Chemicals
229 East 22nd Street
Bayonne, NJ 07002

Lab No. OMC_20436_01
P.O. No. 809764
Test Facility: NAMSA
9 Morgan
Irvine, CA 92618

CERTIFICATE OF COMPLIANCE
USP BIOLOGICAL REACTIVITY TESTS, *IN VIVO*
USP PLASTIC CLASS VI ✓

Test Article: Fluon PTFE (Polytetrafluoroethylene) manufactured by AGC Chemicals Americas Inc.
ID No. PTFE

USP Systemic Toxicity Study in the Mouse: The test article was prepared as indicated below and injected into mice. The saline, alcohol in saline, polyethylene glycol 400 and sesame oil extracts did not produce a significantly greater systemic reaction than the blank extractants.

USP Intracutaneous Toxicity Study in the Rabbit: The test article was prepared as indicated below and injected intracutaneously into rabbits. The saline, alcohol in saline, polyethylene glycol 400 and sesame oil extracts did not produce a significantly greater tissue reaction than the blank extractants.

USP Muscle Implantation Study in the Rabbit: The macroscopic reaction of the test article, implanted in rabbit muscle for five days, was not significant when compared to the USP negative control plastic.

The test article was prepared at a ratio of 60 cm³:20 ml and extracted at 70°C for 24 hours. The test article extracts met the requirements of a USP Plastic Class VI.

Date Completed 4-12-04 Approved By [Signature]
Giorgio Skolmowski, B.A., LAT
Operations Manager

10/99

Acceptance for this use, except where it refers to NAMSA's author approval

Page 1 of 1

Order: 109144
Item: 51F009
26/8-10 JTP



R.G.P. INTERNATIONAL S.r.l.

PRECISION BALLS - SFERE DI PRECISIONE

VIA A. PALAZZI, 8/B
20092 CINISELLO BALSAMO (MI) - ITALY
Line 1 / Linea 1: +39 02.617.88.57 Line 2 / Linea 2: +39 02.66.01.70.32
Fax: +39 02.66.01.66.88
E-mail: rgpballs@rgpballs.com

VAT Number IT 09038350154
P. IVA IT 09038350154 C.F. 06195250151
C.C.I.A.A. 1274216 Iscr. Trib. MI 279979
Reg. Soc. vol. 7180 M-Export N°9715802
Cap. Soc. 36.400 Euro int. vers.



<http://www.rgpballs.com>

Mod. 9.1.1.12 ed. 1 rev. 0

BESCHEINIGUNG/INSPECTION CERTIFICATE EN 10204/3.1.

Kunde/Customer: 004382 Preufb Nr./test report No.
ALFA LAVAL TANK EQUIPMENT A/S 10 3.730
BALDERSHOEJ 19 of April, 16 2010
2635 ISHOEJ (DENMARK)
 Fax: 0045/43558601 DANIMARCA
 ATTN:

Bestellung Nr./Order No.: 09 O2 3043 LS-NR/Delivery note: 10 B2 572
 Datum/Date: 29-09-2009 Lieferdatum/Delivery date: 16/04/10

Lot no. **7S29/09**

Pruefer/Examiner: Mr.Niki Scavullo PCS./QTY/STK 20.000

Our Code Number: **SF316L0063500** Klasse/Grade: G 100 ISO 3290

Kugeln/Balls 1/4"
 Durchmesser/Diameter +/- 0
 Sorte/Sorting STAINLESS STEEL BALL AISI 316L
 Werkstoff/Material

	Abmass/ Diam.Variation		Formabweichung/ Sphericity		Haerte/ Hardness		Ra-Wert/ Roughness	
	MAX	2,5 µm	MAX	2,5 µm	HRC	25-39	MAX	0,1 µm
Nr. 1	+0,3		1,08		30		0,06	
Nr. 2	-0,5		1,27		31,5		0,06	
Nr. 3	+0,6		1,19		30,5		0,06	
Nr. 4	+0,2		1,05		31		0,06	
Nr. 5	-0,2		0,95		29,5		0,06	
Nr. 6	-0,4		1,25		30		0,06	
Nr. 7	+0,5		1,32		30,5		0,06	
Nr. 8	+0,4		0,91		29,5		0,06	
Nr. 9	+0,6		0,93		31		0,06	
Nr. 10	-0,2		1,12		31,5		0,06	

*10 108226
ITEM 517-010
22/4-10
MAN*

Werkstoffzusammensetzung/Chemical composition (%) nach/acc.to DIN EN ISO 683-17

C	MN	SI	CR	S	P	NI	MO
CARBON WT	MANGANESE	SILICIUM	CHROME	SULFUR	PHOSPHORUS	NICKEL	MOLIBDENO
0,016	1,140	0,430	16,250	0,005	0,035	10,090	2,030
							Schmelze/ Heat Nr.
							17545

Bemerkung/Remarks:

R.G.P. INTERNATIONAL SRL SCAVULLO NIKI



Alfa Laval SaniMidget Ultra Pure

Equipment documentation

Doc. ID No.: TE10Q502

Rev. 2

Page 1 of 4

Order information

Serial No.: 5948

P&ID reference:

Item No.: TE10B001-91

Item Description:

Production Order No.: 66314

SaniMidget 360° 3/4"BSP

Sales Order No.: A4034800



Equipment Documentation

SaniMicro Ultra Pure



Serial No: 5948	Doc. ID no.: TE10Q502	Rev. 2
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Declaration of Compliance

Supplier

Alfa Laval Tank Equipment A/S
Baldershoj 19, DK-2635 Ishoj, Denmark
Phone: +45 43558600
FAX.: +45 43558601
E-mail: info@alfalaval.com

Traceability

We as supplier hereby guarantee and certify that the materials and/or parts of the above mentioned equipment(s) have been manufactured in accordance to and comply with the Regulation (EC) No. 1935/2004 of the European Parliament and of the Council of 27 October 2004 on "Materials and articles intended to come into contact with food" regarding traceability.

Compliance to EN 10204 type 3.1 *

We as supplier hereby guarantee and certify that our steel parts, stated in the Steel Parts table in this document, complies with the European Standard EN 10204 of October 2004, Inspection certificate 3.1.

Compliance to the U.S. Food & Drug Administration

We as supplier hereby guarantee and certify that our compound, stated in the Compound table in this document, complies with the U.S. Food & Drug Administration (FDA) Code of Federal Regulations, 21 CFR §177.2415.

Compliance to the United States Pharmacopeia (USP)**

We as supplier hereby guarantee and certify that our compound, stated in the compound table in this document, has been tested and certified by an independent laboratory to be in compliance with the criteria of the U.S. Pharmacopeia, Class VI chapter 88 (version 22 or higher).

TSE (Transmissible Spongiform Encephalopathy) Declaration

We as Supplier hereby declare, under our sole responsibility, that the above stated product never has been in contact with any animal sources. Does not contain, and is not derived from, materials of animal origin. Consequently the product does not contain Specific Risk Materials (SRM's) associated with risk of TSE. TSE Declarations from our supplier can be forwarded on request.

Surface finish Declaration

In accordance with Alfa Laval quality procedures we as supplier hereby declare that the equipment wetted surfaces finish have a surface finish characteristics in accordance with the specification of the equipment.

- Nominal internal/external roughness Ra = 0.5 μm (20 micro inch)
 Nominal internal/external roughness Ra = 0.8 μm (30 micro inch)

* 3.1 certificates are attached to this document

** USP Class VI "Test Result Certificate" and "Declaration of compliance" from subsupplier are attached to this document.

Equipment Documentation

SaniMicro Ultra Pure



Serial No: 5948	Doc. ID no.: TE10Q502	Rev. 2
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Steel Parts, 3.1 traceability

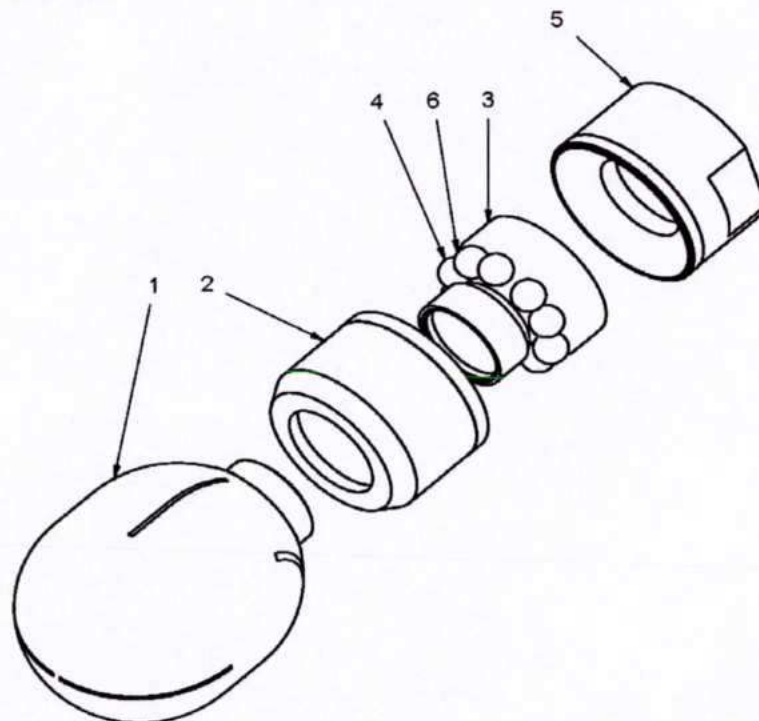
Pos	Part name	Item no.	Qty.	Material	Heat number
1	Cleaner Head	TE10B500	1	AISI 316L	786023
2	Housing	TE10B521	1	SAFF 2205	10ZT0067
3	Rotor	TE10B510	1	SAFF 2205	10ZT0067
4	Ball	TE51F010	8	AISI 316	7S29/09
5	Welding nut	TE10B536	1	AISI 316L	10ZT0050

Polymer parts, Compound ID traceability

Pos	Part name	Item no.	Qty.	Compound ID	Batch/Lot number
6	Ball	TE51F009	8	PTFE	1665

Product specification list

Complete parts overview



Equipment Documentation





SaniMicro Ultra Pure



Serial No: 5948	Doc. ID no.: TE10Q502	Rev. 2
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Responsibilities (for internal use only)	
The responsible person from each department who have performed test or entered data to this document must approve and sign. By signing this document the responsible person hereby declares that the instructions are followed and the requirements met in the appropriate SOP or Technical Specification of this document.	
Initials / Sign	Date (DD-MM-YYYY)
MSE	17-12-2010

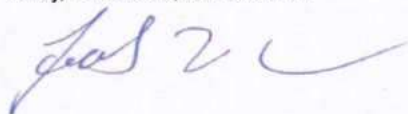
Procedures (available upon request)

 Quality Control SOP001 Version 01	 Traceability Metal Tech. Spec. 93D000 Version 03.1	 Traceability Polymers Tech. Spec. 93R000 Revision 2	 Performance Test Requirements Rotary Spray Heads U2.8 Version 3
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Declaration of compliance to Alfa Laval internal quality system

We as supplier hereby declares, under our sole responsibility, that the above stated unique equipment is manufactured, tested and inspected under controlled conditions established by our ISO 9001:2000 Quality System, and complies to the above selected Procedures.

Ishoj, Denmark, 2010-06-11



Jacob Zander Nielsen, Quality Manager, Alfa Laval

Delivery address, Empfänger, Lieu de livraison OUTOKUMPU NORDIC AB FOLKESTA 631 50 ESKILSTUNA SVERIGE		BESTELLER OUTOKUMPU NORDIC AB ABRAMSONS VÄG 2 BOX 1134 631 80 ESKILSTUNA SVERIGE							
Requirements, Anforderungen, Exigences AD 2000-MERKBL. W2 EN 10028-7 ASTM A240/A240M -08 ASME 2007 SEC. II PART A SA-240 ASTM A240/A240M -08 ASME 2007 SEC. II PART A SA-240		Our Order No. / Unser Auftrag Nr. / Votre commande n° 193473/AKE 59543							
Product, Erzeugnisform, Produit BAND, NICHTROSTEND		Mark of Manufacturer / Zeichen des Lieferanten / Marque du fournisseur OUTOKUMPU	Process / Erzeugungsart / Mode de fabrication AOD						
Grade, Werkstoff, Nuance 1.4404 TYPE 316 TYPE 316L		Tolerances / Toleranzen, Tolérances EN ISO 9445 : 2006							
Marking, Kennzeichnung, Marquage 1.4404 2B		Inspector's stamp / Zeichen d. Sachverständigen / Pignon de l'expert 							
Line / Reihe / Ligne	Item / Position / Poste	Charge-test No. / Schmelz-Probé Nr. / Coulée n°	Size, Abmessungen, Dimensions	Quantity / Stückzahl / Nombre	Weight, Gewicht, Poids	Finish / Ausführung / Finition			
1	2	79964 7	2,0 X 1000 MM		7400 KG	2B			
2	3	77424 4	0,7 X 1250 MM		7440 KG	2B			
3	3	79852 5	0,7 X 1250 MM		3570 KG	2B			
4	4	78296 5	1,25 X 1250 MM		10740 KG	2B			
5	7	78602 3	2,5 X 1250 MM		6010 KG	2B			
Charge no. / Schmelz Nr. / Coulée n°	Chemical composition, Chemische Zusammensetzung, Composition chimique								
	C %	Si %	Mn %	P %	S %	Cr %	Ni %	MO %	N %
79964	0,022	0,50	1,77	0,031	0,001	17,1	10,1	2,05	0,045
77424	0,021	0,46	1,77	0,033	0,003	17,1	10,0	2,06	0,046
79852	0,025	0,49	1,73	0,034	0,001	17,0	10,1	2,08	0,049
78296	0,021	0,49	1,74	0,033	0,002	17,0	10,1	2,08	0,040
78602	0,023	0,45	1,82	0,030	0,001	17,2	10,0	2,06	0,050
Line / Reihe / Ligne	Mechanical properties, Mechanische Eigenschaften, Caractéristiques mécaniques								
	Location / Ort / Lieu	Re0.2 / N/mm²	Re1.0 / N/mm²	Rm / N/mm²	%	A50 %	A80 %	Hardness / Härte / Dureté / HV10	
1	R	314	352	607		53	52	168	
2	R	282	321	630		55	54	153	
3	R	305	336	624		55	54	165	
4	R	299	336	612		54	53	163	
5	R	297	329	576		57	56	166	
Identify test, Verwechslungsprüfung, Contrôle d'identification		O.B.							
Sizes, Abmessungen, Dimensions		O.B.							
Surface, Oberfläche, Surface		O.B.							
Test of integrity, control, Prüfung auf Integrität, Kontrolle, Test de contrôle, Intégrité		O.B.							
EN ISO 3651-2 A: GENUEGEND									
AD 2000-MERKBL. W2 DIN 17441 02.97									
1.4404									
AD 2000-MERKBL. W2 EN 10028-7									
1.4401									
ASTM A240/UNS S31603									
Po 104802.6									
ITEM 108509									
17/11.09									
MAN									
We certify that the above mentioned products comply with the terms of the order contract. Wir bestätigen, dass die Lieferung den Vereinbarungen der Bestellformulare entspricht. Nous certifions que les produits énumérés ci-dessus sont conformes aux prescriptions de la commande.									
This test certificate is made by controlled ADP-system and is valid without signature. Dieses Zeugnis wurde von einem überprüften Datenverarbeitungssystem erstellt und ist ohne Unterschrift gültig. Ce certificat a été établi par un système informatique contrôlé et est valide sans signature.									
Outokumpu Stainless Oy Anne-Maria Salmi									
Authorized inspector / Werkstattsachverständiger / Inspecteur autorisé ANNE-MARIA SALMI									
FIN-96400 Tornio, Finland Tel. +358 16 4521, Fax +358 16 452 350, www.outokumpu.com Domicile: Tornio, Finland. Business Identity Code 0823315-9									

SuZhou Hengjia
苏州恒加

Inspection Certificate according to DIN 50049/ EN 10088-3.1B
3.1B 测试报告

Manufacturer 制造商	SuZhou Hengjia 苏州恒加	Order No. 订单号:	107792-1	Report No. 报告号:	2010-3-18
Part NO. 零件号	10B510	Part Name 零件名称	Styr/Rotor	Material 材料	2205
Batch/Charge Code 批号/炉号	10ZT0067				

1. Statement: No material confusion of this batch. The identification label was sticked on each box
声明: 本批零件无混料。每箱零件上贴有识别标签。

2. Chemical Composition/化学成分:

Composition/成分	C	Cr	Ni	Mo	Mn	N	P	S	Si
Specification/规格	≤0.03	21.0-23.0	4.5-6.5	2.5-3.5	≤2.0		≤0.03	≤0.02	≤1.0
Test Result/结果	0.014	21.56	4.75	2.61	1.09		0.0220	0.012	0.680

3. Heat Treatment/热处理:

Heat Treatment 热处理	1100°C
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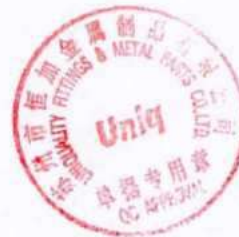
4. Mechanical Properties: See Certificate of Analysis

S/N编号	Item	Yield Point/屈服点	Tensile Strength/抗拉强度	Elongation/延伸率	Test of Hardness/硬度
		MPa (N/mm ²)	MPa(N/mm ²)	(%)	
	Specification/范围	≥450	680-880	≥30	
	Test Result/结果	468.5	763.2	32.1	

We guaranteed that the test result is true and the test results comply with the specification of ASTM.
我们保证测试结果的真实性, 并确认测试结果符合ASTM的规定要求。

Inspector/检验员	PengYanFang	Reviewed By/复核	MengJiang Hua
Date/日期	2010-3-18	Date/日期	2010-3-19

Order: 107792
Item: 10B510
15/6-10 JTP



质量证明书

108510

Certificate of Analysis

苏州市新诺不锈钢有限公司


SuZhou Xinnuo Stainless Steel Co. Ltd.

用户: CUSTOMER 苏州市恒加金属制品有限公司

TEL:0512-62901953

日期:DATE 2010-03-18

FAX:0512-62901953

炉号 HEAT NO	钢种 GRADE	规格 mm	重量 kg	状态	化学成分CHEMICAL COMPOSITION %										力学实验TENSILE TEST				
					C	Cr	Ni	Mn	Si	S	P	N	Mo	σ 0.2 Mpa	σ b Mpa	δ 5 %	ψ %	HB	
10ZT0067	2205	φ32	626	固溶	0.014	21.56	4.75	1.09	0.68	0.012	0.022	0.152	2.61	468.5	763.2	32.1		278	
1. 表面质量、尺寸均符合标准要求 2. 若有质量异议时, 请详告规格、重量等					产品名称: (NAME OF ARTICLE): 不锈钢 执行标准: (EXECUTIVE STANDARD): ASTM										苏州市新诺不锈钢有限公司 				

SuZhou Hengjia
苏州恒加

Inspection Certificate according to DIN 50049/ EN 10204 -3.1B
3.1B 测试报告

Manufacturer 制造商	SuZhou Hengjia 苏州恒加	Order No. 订单号:	110553-1	Report No. 报告号:	2010-7-22
Part NO. 零件号	10B536	Part Name 零件名称	Welding nut BSP	Material 材料	316L
Batch/Charge Code 批号/炉号	10ZT0050				

1. Statement: No material confusion of this batch. The identification label was stuck on each box
声明: 本批零件无混料。每箱零件上贴有识别标签。

2. Chemical Composition/化学成分:

Composition/成分	C	Cr	Ni	Mo	Mn	N	P	S	Si
Specification/规格	≤0.03	16.0-18.0	10.0-14.0	2.0-3.0	≤2.0		≤0.045	≤0.03	≤1.0
Test Result/结果	0.027	16.63	10.10	2.11	1.10		0.0430	0.006	0.043

3. Heat Treatment/热处理:

Heat Treatment 热处理	1100°C
-----------------------	--------

4. Mechanical Properties: See Certificate of Analysis

S/N编号	Item	Yield Point/屈服点	Tensile Strength/抗拉强度	Elongation/延伸率	Test of Hardness/硬度
		MPa (N/mm ²)	MPa(N/mm ²)	(%)	
	Specification/范围	≥119	490-690	≥35	≤22 (HRC)
	Test Result/结果	219.4	526.8	42.8	161 (HB)

We guaranteed that the test result is true and the test results comply with the specification of ASTM.
我们保证测试结果的真实性, 并确认测试结果符合ASTM的规定要求。

Inspector/检验员	PengYanFang	Reviewed By/复核	MengJiang Hua
Date/日期	2010-7-22	Date/日期	2010-7-23



15/11-10
MIAW

质量证明书

Certificate of Analysis

苏州市新诺不锈钢有限

SuZhou Xinnuo Stainless St

用户: CUSTOMER 苏州市恒加金属制品有限公司

TEL:0512-62901953

日期:DATE 2010-07-22

FAX:0512-62901953

炉号 HEAT NO	钢种 GRADE	规格 mm	重量 kg	状态	化学成分CHEMICAL COMPOSITION %										力学实验T		
					C	Cr	Ni	Mn	Si	S	P	N	Mo	$\sigma_{0.2}$ Mpa	σ_b Mpa	δ %	
10ZT0050 ✓	316L ✓✓	φ36	648	固溶	0.027	16.63	10.1	1.1	0.043	0.006	0.043		2.11	219.4	526.8	42	
1. 表面质量、尺寸均符合标准要求 2. 若有质量异议时, 请详告规格、重量等					产品名称: (NAME OF ARTICLE): 不锈钢 执行标准: (EXECUTIVE STANDARD): ASTM								苏州市新诺不 质				

SuZhou Hengjia
苏州恒加

Inspection Certificate according to DIN 50049/ EN 10204 -3,1B
3.1B 测试报告

Manufacturer 制造商	SuZhou Hengjia 苏州恒加	Order No. 订单号:	107787-1	Report No. 报告号:	2010-3-18
Part NO. 零件号	11B521	Part Name 零件名称	Kugleholder / Home	Material 材料	2205
Batch/Charge Code 批号/炉号	10ZT0067				

1. Statement: No material confusion of this batch. The identification label was sticked on each box
声明: 本批零件无混料。每箱零件上贴有识别标签。

2. Chemical Composition/化学成分:

Composition/成分	C	Cr	Ni	Mo	Mn	N	P	S	Si
Specification/规格	≤0.03	21.0-23.0	4.5-6.5	2.5-3.5	≤2.0		≤0.03	≤0.02	≤1.0
Test Result/结果	0.014	21.56	4.75	2.61	1.09		0.0220	0.012	0.680

3. Heat Treatment/热处理:

Heat Treatment 热处理	1100°C
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4. Mechanical Properties: See Certificate of Analysis

S/N编号	Item	Yield Point/屈服点	Tensile Strength/抗拉强度	Elongation/延伸率	Test of Hardness/硬度
		MPa (N/mm ²)	MPa(N/mm ²)	(%)	
	Specification/范围	≥450	680-880	≥30	
	Test Result/结果	468.5	763.2	32.1	

We guaranteed that the test result is true and the test results comply with the specification of ASTM.
我们保证测试结果的真实性, 并确认测试结果符合ASTM的规定要求。

Inspector/检验员	PengYanFang	Reviewed By/复核	MengJiang Hua
Date/日期	2010-3-18	Date/日期	2010-3-19



26/5-10
MAN


113521

质量证明书


Certificate of Analysis


苏州市新诺不锈钢有限公司
 SuZhou Xinnuo Stainless Steel Co. Ltd.
 TEL:0512-62901953
 FAX:0512-62901953

用户: CUSTOMER 苏州市恒加金属制品有限公司
 日期: DATE 2010-03-18

炉号 HEAT NO	钢种 GRADE	规格 mm	重量 kg	状态	化学成分 CHEMICAL COMPOSITION %										力学实验 TENSILE TEST			
					C	Cr	Ni	Mn	Si	S	P	N	Mo	σ 0.2 Mpa	σ b Mpa	δ 5 %	ψ %	HB
10ZT0067	2205	φ52	508	固溶	0.014	21.56	4.75	1.09	0.68	0.012	0.022	0.152	2.61	468.5	763.2	32.1		278
1. 表面质量、尺寸均符合标准要求 2. 若有质量异议时, 请详告规格、重量等					产品名称: (NAME OF ARTICLE): 不锈钢 执行标准: (EXECUTIVE STANDARD): ASTM										苏州市新诺不锈钢有限公司 			

FROM:

 Tank Equipment	Technical specification			No:
	Requirements for "Declaration of Compliance for Polymers" Regarding FDA/USP, for suppliers			93R000
Prep.: DHE	Appr.: BJN	Date: 22.8.2010	Revision: 1	Page: 3/10

 **Engineering Laboratories, Inc.**

Declaration of compliance for Polymers

Supplier order information			
Order no.	64494	Order date	6/3/10

Total no. of pages:	x	No. of attachment pages:	x
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Material information	
Compound type	PTFE
Compound name/ID	Fluon
Batch/Lot no.	1665


Customer and Customer order information			
Customer	Alfa Laval Tank Equipment A/S Baldershoej 19 2635 Ishoej Denmark		
Customer item number(s)	TE51F009		
Order no.	109144-1	Order date	06/03/10

Declaration of compliance regarding Quality Management System

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the materials and/or parts of the above mentioned product have been manufactured, tested and inspected under controlled conditions established by our quality system and conform to the specifications of the purchase order and drawing(s).

Declaration of compliance regarding Traceability

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the materials and/or parts of the above mentioned product(s) have been manufactured in accordance to and comply with the Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on "Materials and articles intended to come into contact with food" regarding traceability.

 Tank Equipment	Technical specification			No:	93R000
	Requirements for "Declaration of Compliance for Polymers" Regarding FDA/USP, for suppliers			Revision:	
	Prep.: DHE	Appr.: BJN	Date: 22.8.2010	Page:	4/10

TSE (Transmissible Spongiform Encephalopathy) Declaration

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the materials and/or parts of the above mentioned product never has been in contact with any animal sources. Does not contain, and is not derived from, materials of animal origin.
Consequently the product does not contain Specific Risk Materials (SRM's) associated with risk of TSE.

Compliance to the U.S. Food & Drug Administration CFR 21 § 177.2415

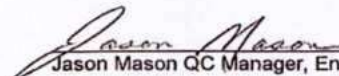
We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that our compound *Fluon G201* complies with the U.S. Food & Drug Administration (FDA) Code of Federal Regulations, Title 21, part 21CFR 177.2415.

Compliance to the United States Pharmacopoeia (USP)

We, Engineering Laboratories, Inc. as supplier, hereby guarantee and certify that the compound designated Fluon G201 has been evaluated according to the test procedures contained in the USP Class VI standard chapter 88 (version 22 or higher).
The test report which proves the above was performed by Namsa and recognized by project number 809764.

We, Engineering Laboratories, Inc. as supplier hereby guarantee and certify that the compound used for the above stated order is manufactured and registered by Engineering Labs as the above stated 1665.

Engineering Laboratories, Inc. certify that the above information's are correct as contained in the records of the company. The below signature is given by the company quality responsible independent of the manufacturing unit.


Jason Mason QC Manager, Engineering Laboratories, Inc.

Company information			
Name	Engineering Laboratories	Tel.	201 337 8116
Address 1	360 West Oakland Ave	Fax	201 337 2467
Address 2		E-mail	sales@plasticballs.com
City, Country	Oakland NJ 07436 USA	WWW	www.plasticballs.com

Document is kept and revision is maintained in Productstream.

Order: 109144
Item: 51F009
26/8-10 JTP



ENGINEERING LABORATORIES, INC.

360 West Oakland Avenue • Oakland, New Jersey 07436
Phone: (201) 337-8116 • Fax: (201) 337-2467
www.plasticballs.com

CERTIFICATE OF COMPLIANCE

This is to certify that the product listed below complies with the referenced purchase order and Engineering Laboratories, Inc. specifications and standards.

- Customer:
**ALFA LAVAL TANK EQUIPMENT A/S
POSTBOKS 1149
BALDERSHOJ 19
ISHOEJ, DK-2635
DENMARK**
- Description of Part/Product:
.2422 VIRGIN TEFLON BALL
- Product Part Number: **BL02422TVNA2BC**
- Quantity Shipped: **30,000**
- Customer PO# **109144-1**
- Date Shipped: **8/19/2010**

Signed: 
Daniel S. Mason
President

Date: 8/19/2010

Order: 109144
Item: 51F009
24/8-10 JTP



ENGINEERING LABORATORIES, INC.

360 West Oakland Avenue • Oakland, New Jersey 07436
Phone: (201) 337-8116 • Fax: (201) 337-2467
www.plasticballs.com


ALFA LAVAL TANK EQUIPMENT
BLADERSHOJ 19
POSTBOKS 1149
2635 ISHOJ
DENMARK

Attn. Jannik Bonde

DECLARATION OF CONFORMITY

We, Engineering Laboratories, Inc. hereby declare, that the following products are produced from virgin Teflon (PTFE) material and agrees with FDA-regulation 21CFR 177.1550.

<u>Client order no.</u>	<u>Client part no.</u>	<u>Product Desc.</u>	<u>Quantity</u>	<u>Ship Date</u>
109144-1 ✓	TE51F009 ✓	.242" Teflon Ball	30,000	08/19/10

Signed: 
Daniel S. Mason
President

Date: 08/19/10

24/8-10
MAN

ADAM *EX 21-337-2167*

Allstate Plastics, Inc.

237 Raritan St., South Amboy, New Jersey 08979 • Telephone (732) 721-4024 • Fax (732) 727-4182

CERTIFICATION OF CHEMICAL AND PHYSICAL ANALYSIS

We certify that the chemical and physical properties of the materials used in the manufacture of the item(s) under this purchase order are in full accord with the requirements and specifications contained therein.

SUPPLIED FOR:	<u>ENGINEERING LABS</u>	P.O #	<u>1665</u> ✓
QUANTITY:	<u>1,002 FT X 6 FT</u>	DESCRIPTION	<u>17/64" DIA ROD</u>
TYPE:	<u>EXTRUDED</u>	GRADE	<u>VIRGIN</u> ✓
LOT #:	<u>201-0055263B</u>	MATERIAL SPEC.	<u>VIRGIN PTFE</u>

ORDER SHIPPED ON 6-30-10

PHYSICAL TEST REPORTS:

Customer did not require actual test reports covering the materials supplied for this purchase order. However, historical testing on these same materials and sizes have shown the results were compliant to the above material specification requirements

TENSILE STRENGTHS	_____	psi
ELONGATION	_____	%
SPECIFIC GRAVITY	_____	
DIELECTRIC STRENGTH	_____	V/M
DIMENSIONAL STABILITY	_____	%

We certify that the manufacture of the products listed above was produced with out the use of any ozone depleting chemicals or those containing any mercury or mercury compounds

We certify that the manufacture of the products listed above was produced at our manufacturing location at 237 Raritan Street South Amboy, NJ USA.

8-25-10
Date

Lydia Ruiz
LYDIA RUIZ

Order: 109144
Item: 51F009
2/8-10 JTP



Chemicals Americas, Inc.

AGC CHEMICALS AMERICAS, INC.
229 E. 22nd Street
Bayonne, NJ 07002
Phone: (201) 858-8900
Fax: (201) 858-8970
<http://www.agcchem.com>

November 5, 2004

Rich Fisher
Allstate Plastics
237 Raritan Street
South Amboy, NJ 08879

Dear Rich:

This letter is to convey that Polytetrafluoroethylene (PTFE) meets the material requirements of 3-A Sanitary Standards for multiple-use as product contact and/or cleaning solution contact surfaces in equipment for production, processing, and handling of milk and milk product(s) (Standard Number 20-22).

Fluon® grade G201 is 100% PTFE and is compliant with the compositional and extraction requirements for FDA regulation 21 CFR 177.1550 and USP Class VI certification and can conform to the 3-A Sanitary Standards.

Only processed PTFE, sintered at high temperatures common in the industry, complies with FDA regulations, USP certification, and 3-A Sanitary Standards.

If you have any questions or need additional information, please contact me at (201) 858-4762. Thank you for your business, and we look forward to continue working with Allstate Plastics as one of our most important customers.

Sincerely,

Jonathan C. Clopp
Fluon® PTFE Technical Service Group Leader

Fluon® is a registered trademark of Aulic Glass Company, L.L.C.

The information provided herein is advised only to the specific product designated and may not be applicable when such product is used in combination with any other materials or in any process. NO REPRESENTATION OR WARRANTY, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE, ARE MADE HEREUNDER. The user of this product has the sole responsibility to determine the suitability of the product for any use and manner of use intended. The document may be revised after its issuance, and the user is advised to use the latest revision.

The information and recommendations in this document are, to the best of our knowledge, reliable. Suggestions made concerning uses or applications are only the opinion of AGC Chemicals America, Inc. and users should make their own tests to determine the suitability of these products for their own particular purposes. Statements herein, therefore, should not be construed as representations or warranties.

Order: 109144
Item: 51F009
26/8-10 JTP



NAMSA
Ensuring Medical Device
Safety and Compliance

Corp. Office: 2091 West Road, Northbrook, OH 43810-1297 / 419.606.8455 / Fax 419.606.2454
 2120 Cook Industrial Blvd., Kennesaw, GA 30142-7611 / 770.427.3141 / Fax 770.424.5087
 9 Morgan, Irvine, CA 92618-2018 / 419.606.3110 / Fax 919.551.2298
 Offices: France • Germany • Israel • Japan • United Kingdom

Confidential
TCLAS_V15

Lab No. 04C_29436_01
 P.O. No. 809764
 Test Facility: NAMSA
 9 Morgan
 Irvine, CA 92618

Derrick Mitchell
 AGC Chemicals
 229 East 22nd Street
 Bayonne, NJ 07002

CERTIFICATE OF COMPLIANCE
 USP BIOLOGICAL REACTIVITY TESTS, *IN VIVO*
 USP PLASTIC CLASS VI ✓

Test Article: Fluon PTFE (Polytetrafluoroethylene) manufactured by AGC Chemicals Americas Inc.
 ID No. PTFE

USP Systemic Toxicity Study in the Mouse: The test article was prepared as indicated below and injected into mice. The saline, alcohol in saline, polyethylene glycol 400 and sesame oil extracts did not produce a significantly greater systemic reaction than the blank extractants.

USP Intracutaneous Toxicity Study in the Rabbit: The test article was prepared as indicated below and injected intracutaneously into rabbits. The saline, alcohol in saline, polyethylene glycol 400 and sesame oil extracts did not produce a significantly greater tissue reaction than the blank extractants.

USP Muscle Implantation Study in the Rabbit: The macroscopic reaction of the test article, implanted in rabbit muscle for five days, was not significant when compared to the USP negative control plastic.

The test article was prepared at a ratio of 60 cm²:20 ml and extracted at 70°C for 24 hours. The test article extracts met the requirements of a USP Plastic Class VI.

Date Completed 4-12-04 Approved By [Signature]
 Gino M. Skolmowski, B.A., LAT
 Operations Manager

Order: 109144
 Item: 51F009
 2/8-10 JTP



R.G.P. INTERNATIONAL S.r.l.

PRECISION BALLS - SFERE DI PRECISIONE

VIA A. PALAZZI, 8/B
20092 CINISELLO BALSAMO (MI) - ITALY
Line 1 / Linea 1: +39 02.617.88.57 Line 2 / Linea 2: +39 02.66.01.79.32
Fax: +39 02.66.01.66.88
E-mail: rgpballs@rgpballs.com

VAT Number IT 09038350154
P.IVA IT 09038350154 C.F. 06195250151
C.C.I.A.A. 1274218 Iscr. Trib. MI 279979
Reg. Soc. vol. 7180 M-Export N°9715802
Cap. Soc. 36.400 Euro int. vers.



<http://www.rgpballs.com>

Mod. 9.1.12 ed. 1 rev. 0

BESCHEINIGUNG/INSPECTION CERTIFICATE EN 10204/3.1. ✓

Kunde/Customer: 004382 ALFA LAVAL TANK EQUIPMENT A/S BALDERSHOEJ 19 2635 ISHOEJ (DENMARK) Fax: 0045/43558601 DANIMARCA ATTN:	Preufb Nr./test report No. 10 3.730 of April, 16 2010
Bestellung Nr./Order No.: 09 O2 3043 Datum/Date: 29-09-2009	LS-NR/Delivery note: 10 B2 572 Lieferdatum/Delivery date: 16/04/10
Lot no. 7S29/09 ✓	
Pruefer/Examiner: Mr. Niki Scavullo	PCS./QTY/STK 20.000
Our Code Number: SF316L0063500 ✓	Klasse/Grade: G 100 ISO 3290

Kugeln/Balls Durchmesser/Diameter 1/4"
Werkstoff/Material STAINLESS STEEL BALL AISI 316L
Sortierung +/-0

Nr.	Abmass/ Diam. Variation		Formabweichung/ Sphericity		Haerte/ Hardness		Ra-Wert/ Roughness	
	MAX 2,5 µm		MAX 2,5 µm		HRC 25-39		MAX 0,1 µm	
Nr. 1	+0,3		1,08		30		0,06	
Nr. 2	-0,5		1,27		31,5		0,06	
Nr. 3	+0,6		1,19		30,5		0,06	
Nr. 4	+0,2		1,05		31		0,06	
Nr. 5	-0,2		0,95		29,5		0,06	
Nr. 6	-0,4		1,25		30		0,06	
Nr. 7	+0,5		1,32		30,5		0,06	
Nr. 8	+0,4		0,91		29,5		0,06	
Nr. 9	+0,6		0,93		31		0,06	
Nr. 10	-0,2		1,12		31,5		0,06	

PO 108226
ITEM 5/FORD
22/4-10
MAN

Werkstoffzusammensetzung/Chemical composition (%) nach/acc.to DIN EN ISO 683-17

C	MN	SI	CR	S	P	NI	MO
CARBON WT	MANGANESE	SILICIUM	CHROME	SULFUR	PHOSPHORUS	NICKEL	MOLIBDENO
0,016	1,140	0,430	16,250	0,005	0,035	10,090	2,030
							Schmelze/ Heat Nr.
							17545

Bemerkung/Remarks:

R.G.P. INTERNATIONAL SRL

SCAVULLO NIKI