

MATERIAL IN PRODUCT CONTACT MATERIALI A CONTATTO CON IL PRODOTTO

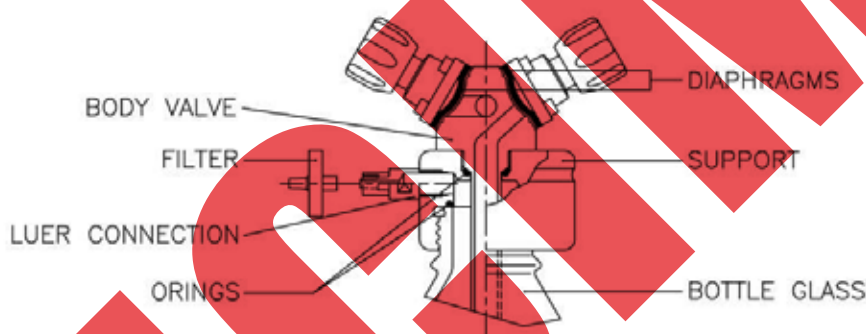
DDT ref **2022.3.3989** of **22/11/2022**

Ref. **22-3732 R.01**

customer	ROMYNOX BV	customer PO	00010902	AR confirmation	2022.1.3732
customer id.	201599	Date	5/10/2022	Date	6/10/2022

AR code	lot number	description	Q.ty
SB-05AGAGZC-TFMC-71A	C22-2571-001	BOTTIGLIA DI CAMPIONAMENTO 500ml TENUTE PTFE/FEP	1,00
customer code			

Image reference ONLY



Liv.	AR part number	Sketch Reference	Lot / Certificates	Note	File Name
1	SSB-DVB	body valve / corpo valvola			
2	* W-SSB-CRP				
3	** TP070-6L		211018-001	177648	211018-001_cogne_177648.tif
2	* SSB-TCRP-0500	tube / tubo			
3	** TUSS-D012.7X1.65-13A-	tube / tubo	210903-008	N23034	210903-008_dockweiler_BPE_N23034.tif
1	SSB-LUER-M12X1	luer filter / attacco filtro			
2	* TT014-6		211012-007	173298	211012-007_cogne_173298.tif
1	SSB-SUPP	support / supporto	C22-0639-003		PVDF-fda-cmf.tif
1	DD03-GTFML	diaphragm / membrana	210511-002		210511-002_DD03-GTFML.tif
1	SSB-VETRO-0500P		220330-002		220330-002-SSB0500P.tif
1	SSB-ACRODISC-CR-PTFE	filter / filtro			acrodisc-8838828A.tif
1	ORM0140-30-X+F				OR-FEP-X-angstpfister.tif
1	ORM0300-30-X+F				ORM0300-30-X+F_ultrapharma.tif

Fornitore Supplier Aerre Inox S.r.l.	Qualifica Personale Job Title Uff. Assicurazione Qualità Quality Control Dept.	Posta elettronica e-mail address uaq@aerreinox.it	Data Date 25/11/2022	
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Aerre Inox S.r.l.

Sede Legale: via Gerola n.4 - 26010 FIESCO - CREMONA ITALY - Tel. +39.0374.370828 - Fax +39.0374.370833
http://www.aerreinox.it - E-mail: info@aerreinox.it - CAP.SOC.INT.VERS. € 208.000,00 - MECC. CR 006012 - R.E.A. CR 124532
Reg. Imprese di CREMONA - Cod. Fiscale 00962930194 - Partita IVA IT 00962930194



COGNE ACCIAI SPECIALI S.p.a.

ITALY - 11100 AOSTA - VIA PARAVERA, 16
TEL +39.0165.3021 - FAX +39.0165.302296
CAP. SOC. 200.000.000 EUR INT. VERS.
C.F. 02187360967
VAT: IT00571320076 - R.E.A. n. AO-50474

Company with Management Systems
certified according to ISO 9001, IATF 16949,
EN 9100 and ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2021045350
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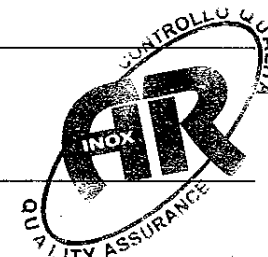
CUSTOMER: COGNE EDELSTAHL GmbH
CUSTOMER'S ORDER: 60019721
MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY
PRODUCER OF THE DOC: QUALITY DEPARTMENT
MANUFACTURER'S WORKS ORDER NO: 25281602 /80
MARK OF THE MANUFACTURER: COGNE
DISPATCH NOTE: 81437247 / 10 WEIGHT: 746 KG / 1645 LB
THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER, EXCEPT FOR EXEMPTIONS AGREED WITH THE CUSTOMER, IF ANY.
INTERNAL SPEC: AD2000MERKBLATTW10 TECHNICAL RULE: AD2000
PRODUCT: PEL PEELED ROUND BARS TOLERANCE: ISOK11
SURFACE FINISH: 2B Cold Finished
PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
PRODUCT DIMENSIONS (mm): 70,000 (2,756 in) LENGTH (mm) 04000 06200 (00157 00244 in)
GRADE: 316L-S31600/31603-1.4404/1.4401 INTERNAL GRADE: F316L IMCO
IDENTIFICATION HEAT NO: 177648 IDENTIFICATION LOT NO: 837830
MARKING OF THE PRODUCT: 1.4404 TEST PIECE N: 783

AISI 316/316L - UNS S31600/S31603 - 1.4404/1.4401
THE MATERIAL IS PRODUCED ACCORDING TO SPECIFICATION AD2000-MERKBLATT W2/W10
DOCUMENT ISSUED IN AGREEMENT WITH TUEV BAYERN(11.1972) WAVING OF COUNTERSIGNING (SEE TUEV BAYERN LETTER DATED 17.01.80).
REFERENCE NORMS: EN 10088-3 2014, EN 10272 2016, ASTM A276/A276M, ASTM A479/A479M, ASTM A193 B8MCLASSE 1D, ASME SA276/SA276M, ASME SA479/SA479M, AMS 5653J, AMS 5648M, ISO15156-3/NACE MR0175 2015, NACE MR0103/ISO 17945, NORSOK M630 MDSS01 REV5.
REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTM A182, ASME SA182.
REFERENCE NORMS ONLY FOR CHEMICAL COMPOSITION: EN 10222-5 2017, ASTM A403-07a, ASTM A484-18a, ASTM A314-08, AMS-QQ-S-763D.
ASME SECT.II PART A EDITION 2015-2017-2019
MATERIAL ACCORDING TO NACE MR0103/ISO 17945
HOT ROLLED
REDUCTION RATIO 6,1

CHEMICAL LADLE ANALYSIS ACCORDING TO ASTM A751 - EN ISO 14284
Control lot No. - Weight :020000888769 - 805.680 KG - 1.776.190 LB
ELEMENTS C Si Mn P S N Cr Mo Ni Cu
OBTAINED 0,015 0,37 1,81 0,027 0,023 0,084 16,76 2,08 10,35 0,37
ELEMENTS Co
OBTAINED 0,13

HARDNESS TEST IN AS DELIVERY CONDITION
Control lot No. - Weight :020000889203 - 20.751 KG - 45.747 LB
SPECIFICATION ENISO6506 HARDNESS TEST HB TESTING METHOD: 10/3000
OBTAINED 177

IMPACT TEST IN AS DELIVERY CONDITION
Control lot No. - Weight :020000889203 - 20.751 KG - 45.747 LB
SPECIFICATION EN ISO 148-1-KV2 DIRECTION OF THE TEST PIECE: L
TYPE OF TEST PIECE KV
TEST TEMPERATURE °C 20
MEASUREMENT UNIT J
OBTAINED 440 437 438 430 435 431 437 440 439 433
440 439



211018-001

TP070-6L

DATE 01.10.2021

MORABITO ROSA CF(WORKS INSPECTOR) - ELECTRONICALLY GENERATED CERTIFICATE

-Cogne



COGNE ACCIAI SPECIALI S.p.a.

ITALY - 11100 AOSTA - VIA PARAVERA, 16
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Company with Management Systems certified
according to ISO 9001, IATF 16949, EN 9100 and
ISO 14001.

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DOCUMENT NUMBER 2021045350
PAGE 2/3

TENSILE TEST IN AS DELIVERY CONDITION
Control lot No. - Weight :020000889203 -
SPECIFICATION

20.751 KG -
EN-ISO6892-1

45.747 LB
DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	RM MPA	RP02 MPA	A5 %	Z %	RP1 NMM
OBTAINED	596	274	55,5	78,5	318
	591	269	54,0	80,0	315
	587	254	55,7	77,6	316
	597	266	53,6	77,3	318

GRAIN SIZE

Control lot No. - Weight :020000889203 -
SPECIFICATION
OBTAINED

20.751 KG -
ASTME112 --

45.747 LB

5 7

CORROSION TEST ACCORDING TO ASTM A262 PRACTICE E EN ISO 3651-2 PRACTICE A: SATISFACTORY.
MATERIAL ACCORDING TO ASME SEC. II Ed. 2015

IMPACT TEST

Control lot No. - Weight :020000889203 -
SPECIFICATION

EN ISO 148-1
KV

45.747 LB
DIRECTION OF THE TEST PIECE: L

TYPE OF TEST PIECE

TEST TEMPERATURE °C

MEASUREMENT UNIT

OBTAINED	185	187	195	179	186	191	188	177	181	179
	179	196								

TENSILE TEST

Control lot No. - Weight :020000889203 -
SPECIFICATION

20.751 KG -
ASTMA370-E8-0.5"SPEC

45.747 LB
DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	RMB KSI	RP02B KSI	ZB %	AL2B %
OBTAINED	87	39	77,6	59,3
	89	39	77,3	57,3
	88	39	78,7	58,5
	87	40	79,7	56,2

211018-001

The products delivered are conforming to EN10088-5 and bear the CE marking on the basis of the test results here reported and the continuous surveillance, assessment and approval by MPA NRW

(certificate no. 0432-CPR-00166-01)

Material produced according to the system #Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011#

ULTRASONIC TEST ACCORDING TO EN 10308 Class.3: SATISFACTORY

EDDY CURRENT INSPECTION OF SURFACE ACCORDING TO EN 10277 CLASS 4.

DIMENSIONAL CONTROL ACCORDING TO EN 10278: SATISFACTORY.

NO WELDING REPAIR ON THE MATERIAL.

DATE 01.10.2021

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-Cogne





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PAGE 3/3

ANTIMIXING TEST BY PORTABLE SPECTROMETRE: CONFORMING
MARKING: SYMBOL OF THE MANUF. WORK, MATERIAL N., CAST N., LOT N., RECEIVING AGENT STAMP
COUNTRY OF MELTING AND ORIGIN: ITALY, THE MATERIAL COMPLIES WITH FAR DFARS
252.225-7009 ALT 1.

THE PRODUCT SATISFIES THE DIRECTIVES: 2015/863/EU (ROHS3) - 2011/65/EU (ROHS2) - 2000/53/EU - 2002/95/EU (RoHS) - 2003/11/EU-
2005/618/EU AND PED 2014/68/EU.

ALL THE NORMS MENTIONED ARE INTENDED IN THEIR LAST REVISION AT THE DATE OF ISSUE OF THIS DOCUMENT.

MATERIAL ACCORDING TO NACE MR0103/ISO 17945

INSPECTOR'S STAMP LF

QUALITY SYSTEM CERTIFIED BY KIWA CERMET ACCORDING TO UNI EN ISO 9001:2015 -IATF 16949:2016 (THE LAST ONE ONLY FOR WIRE ROD AND HOT
ROLLED-PEELED-GROUND STAINLESS STEEL BARS).

THE MATERIAL IS FREE OF ANY MERCURY, MERCURY COMPOUNDS AND OR RADIUM CONTAMINATION AT TIME OF SHIPMENT AND WAS PRODUCED WITHOUT
USING OZONE DEPLETING SUBSTANCES OF CLASS I AND II.

RADIOACTIVITY CONTROL PERFORMED WITH A GAMMA SPECTROMETER: ASTM E181.

GAMMA ACTIVITY ON THE PRODUCTS BELOW 0.1 BQ/G ACCORDING TO EU RESOLUTION 2013/59/EURATOM, IAEA RS-G-1.7 AND IAEA SSG-17.



211018-001

DATE 01.10.2021

MORABITO ROSA CF (WORKS INSPECTOR) - ELECTRONICALLY GENERATED CERTIFICATE

-Cogne

Abnahmeprüfzeugnis 3.1 nach EN 10204 Inspection Certificate 3.1 acc. to EN 10204

Bescheinigungsnummer - Document No.: 10002743274 / 00 A03

D-OCKWEILER

connecting flow to purity

Dockweiler AG - An der Autobahn 10/20 - 19306 Neustadt-Glewe - Germany A01

Aerre Inox s.r.l. A06

Via Gerola 4

26010 FIESCO CREMONA

ITALY



Certified as per ASME BPE
Certificate of Authorization No. BPE-105
expiring on 2025-11-17,
ISO 9001:2015 Cert. No. 07 100 980183,
ISO 14001:2015 Cert. No. 07 104 980183,
Directive 2014/68/EU Annex I, Section 3.1
Cert. No. 50164/4,
AD 2000-Merkblatt HP0 &
ISO 3834-2:2005 Cert. No. 50164/3.

A04

Kundenbestellnr. - Customer P.O. no.		A09	Auftrags-Nr. - Our order no.		A13	Geliefert am - Delivered on		A10				
1111			1030164759			August 26, 2021						
Lieferschein-Nr./Pos. - Our delivery no./item			A14/A15		Chargen-Nr. des Artikels - Batch-no.			A08				
1080335917 / 900001			2100517127									
Qualität - Quality	B04	Norm - Standard	B17	Stückzahl - Qty	B08	Länge - Length	B10	NPS	B15	Schedule	B16	
ASME BPE-2019 SF1				-		96,16 M		-		-		
Zeichnungs-nr. - Drawing no.		B06	Schweißverfahren - Welding process		A11	Stahlherstellungsverfahren - Steelmaking process						C70
-				-		EAF, VOD						
Produkt - Product		B01/B09										
TUBE 12,70 mm (0,500 ") x 1,65 mm (0,065 ") - seamless - S31603 - - -												
Kennzeichnung - Marking		B06										
DOCKWEILER NB6974 12,70 x 1,65mm S31603 - DIN EN 10216-5 TC1 CFA -ASTM A269/A270 SML NDE - ASME SA213 avg.wall - Heat N23034 - (YHI) -CTC KOREA ASME BPE SF1												
Kundenspezifikation - Purchasers specification						Kundenmaterialnr. - Purchasers material no.						
-						-						

Vormaterialhersteller - Manufacturer of raw material A12	Schmelze - Heat B07	Vormaterialchargen-nr. - Batch-no. of raw material A16
Clean Tube Creation Inc.	N23034	2000464640

Schmelze - Heat B07	Anforderungen - Requirements B03
N23034	DIN EN 10216-5 TC1, ASTM A269, ASTM A270, ASTM A632, ASME SA-213 avg. wall, PED 2014/68/EU, AD 2000-W0, AD 2000-W2, NACE MR0175

Chemische Zusammensetzung Schmelze [Gew.-%] - Chemical Analysis Heat [WT-%]

Übertragen aus Vormaterialzeugnis - Results acc.to raw material inspection certificate

	Schmelze B07	Werkstoff B02	Herstellercode B14	C c71	Si c72	Mn c73	P c74	S c75	Cr c76	Ni c77	N c88
	Heat	Steel Grade	Manufacturer's code								
1	N23034	1.4404/S31603 (316L)	-	0,012	0,433	0,941	0,026	0,007	16,86	11,99	0,0069

	Ti c79	Mo c80	Al c81	Fe c82	Cu c83	Nb c84	Se c85	Ca c86	Ta c87	W c88	V c89	Cr(äq) - 0,91 x Ni(äq) - Cr(äq) - 0,91 x Ni(äq) c90
1	-	2,020	-	-	-	-	-	-	-	-	-	-

Materialkontrollen - Material examination

Übertragen aus Vormaterialzeugnis - Results acc.to raw material inspection certificate

Wärmebehandlung - Heat treatment: N23034 1050 °C, bright annealed

Materialverwechslungsprüfung - P.M.I.: N23034 OK

Zerstörende Prüfungen - Results of destructive tests

Übertragen aus Vormaterialzeugnis - Results acc.to raw material inspection certificate

Zugversuch - Tensile test(s)		Probenform c10		Rp0.2		Rp1.0 c11		Rm c12	Bruchdehnung A c13	Brücheinschnürung Z c14
		Type of test piece		MPa psi		MPa psi		MPa	Elongation	Reduction of area
-	-	-		-		-		-	-	-
1	N23034	-		299 -		-		558	52	-

210903-008

TUSS-D012.7X1.65-13A-B

1

Kerbschlagbiegeversuch - Impact test						Härte - Hardness C30			
Schmelze - Heat	B07	Probenform	C40	Probenbreite	C41	Mittelwert	C42	Prüftemperatur	C43
		Type of test piece		Width of test piece		Mean value		Test temperature	
-	-	-	-	-	-	-	-	-	-
1	N23034	-	-	-	-	-	-	-	-

HV	HR	BHN
NACE MR0175		
142 HV	-	-

Schmelze - Heat	B07	Aufweitversuch	C50	Bördelversuch	C51	Ringzugversuch	C52	Ringfaltversuch	C53	Biegeversuch	C58
		Flaring test		Flange test		Ring tensile test		Flattening test		Bend test	
-	-	DIN EN ISO 8495	-	-	-	-	-	DIN EN ISO 8492	-	-	-
1	N23034	OK	-	-	-	-	-	OK	-	-	-

Schmelze - Heat	B07	Ringaufdomversuch	C54	Wurzelseitiger Ringfaltversuch	C55	Schweißnahtbiegeversuch	C56
		Ring expanding test		Reverse flattening test		Reverse bend test	
-	-	-	-	-	-	-	-
1	N23034	-	-	-	-	-	-

Schmelze - Heat	B07	Korrosionstest	C57	Korngröße	C59
		Corrosion test		Grain size	
-	-	ASTM A262 Pract. A	-	-	-
1	N23034	OK	-	-	-

Zerstörungsfreie Prüfungen - Results of non-destructive tests

Übertragen aus Vormaterialzeugnis - Results acc.to raw material inspection certificate

Dichtheitsprüfung - Leak test							
Schmelze - Heat	B07	Innendruckversuch mit Wasser	D05	Druckprüfung	D13	Wirbelstromprüfung	D06
		Hydrostatic test		Pneumatic test		Eddy current test	
-	-	-	-	-	-	DIN EN ISO 10893-1, ASTM E 426	-
1	N23034	-	-	-	-	OK	-

Schmelze - Heat	B07	Ferritgehalt	D02	Ultraschallprüfung	D07	Durchstrahlprüfung	D08	Ultraschallprüfung	D09
		Ferrite test		Ultrasonic test		Radiographic test		Ultrasonic test	
-	-	-	-	-	-	-	-	-	-
1	N23034	-	-	-	-	-	-	-	-

Endkontrolle - Final Examination

Kontrolle Materialkennzeichnung:	OK		D01	Maßkontrolle:	OK	D01
Control of material marking				Dimensional control		
Oberflächenkontrolle:	OK	außen - outside	D03	Materialverwechslung:	10% tested: OK	D04
Surface examination		innen - inside		P.M.I.		

Rauheit innen/Naht	D11	Rauheit außen	D12	Härteprüfung HV10	C30	Durchstrahlungsprüfung	D08	Eindringprüfung (ZfP)	D14
Roughness inside/ weld		Roughness outside		Hardness		Radiographic test		Penetrant testing (NDT)	
EN ISO 4287, ASME B46.1		EN ISO 4287, ASME B46.1		EN ISO 6507-1		EN 1435		EN ISO 3452-1	
Ra	Ra(max)	Ra	Ra(max)	-	-	-	-	-	-
0,14 µm	0,37 µm	0,34 µm	0,40 µm	-	-	-	-	-	-

Ferritgehalt ges. Teil	D02	Ferritgehalt LN & GW	D02	Dichtheitsprüfung	D05	Druckprüfung	D13	Magn. Permeabilität	D15
Ferrite test		Ferrite test (weld seam)		Leak test		Pressure test		Magnetic permeability	
max	avg	max	avg	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Konformitätserklärung / Certificate of Conformity

Hiermit wird bestätigt, dass das gelieferte Produkt mit den Anforderungen der Spezifikation und den Vereinbarungen der Bestellung übereinstimmt.

We herewith confirm that the product supplied is in conformity with the demands of the specification and agreements in the order.

210303-008

Anlagen - Attachment No

Dr. Jan Rau (D95) z03
Abnahmebeauftragter - Inspection Representative
Certified Individual (CI) acc. to ASME BPE, Part CR

August 26, 2021

Datum - Date z02

Dieses Dokument wurde maschinell erstellt und ist ohne Unterschrift gültig.
This document was created electronically and is valid without signature.

Alle Angaben zu Normen und Spezifikationen ohne Verweis auf eine spezifische Revision oder ein Datum beziehen sich auf die jeweils letzte Ausgabe.
All standards and specifications listed without a specific edition or date refer to the most current edition.

Angaben zu Fertigungs- und Schweißverfahren:

Zertifiziert nach DIN EN ISO 3834-2, DIN EN ISO 15614-1, ASME BPVC Section IX, Modul A2 der Richtlinie 2014/68/EU sowie AD 2000-MerkblattHP0

Statement on manufacturing and welding procedures:

Certified as per DIN EN ISO 3834-2, DIN EN ISO 15614-1, ASME BPVC Section IX, Module A2 of Directive 2014/68/EU and AD 2000 Merkblatt HP0



210903-008



COGNE ACCIAI SPECIALI S.p.a.

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Company with Management Systems
certified according to ISO 9001, IATF 16949,
EN 9100 and ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2021038746
PAGE 1/2

CUSTOMER:
CUSTOMER'S ORDER:
MANUFACTURER'S WORKS:
PRODUCER OF THE DOC:
MANUFACTURER'S WORKS ORDER NO:
MARK OF THE MANUFACTURER:
DISPATCH NOTE:

COGNE EDELSTAHL GmbH
Oda: DE01 4900084866
AOSTA, VIA PARavera 16 - ITALY
QUALITY DEPARTMENT
50378991 /10

COGNE
81435602 / 20 WEIGHT: 74 KG / 163 LB

THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER, EXCEPT FOR EXEMPTIONS AGREED WITH THE CUSTOMER, IF ANY.

INTERNAL SPEC:

STOCKBARREW2 TECHNICAL RULE: AD2000-W2

PRODUCT:

TRA COLD DRAWN ROUND BARS TOLERANCE: ISOH9

SURFACE FINISH:

2H Cold Finished

PRODUCT DELIVERY CONDITION:

RP ANNEALED+COLD WORKED

PRODUCT DIMENSIONS (mm):

14,000

GRADE:

AISI 316/316L EN1.4401/4404

LENGTH (mm) 03050 /03100

IDENTIFICATION HEAT NO:

173298

INTERNAL GRADE: 316LMQ IMCO

MARKING OF THE PRODUCT:

1.4404

IDENTIFICATION LOT NO:

726910

TEST PIECE N:

691



THE PRODUCT IS CONFORMING TO THE CONTRACT AGREEMENT AND TO THE RULE AD2000-MERKBLATT W0/W2.

REFERENCE NORMS: EN 10088-3, EN 10272, ASTM A484, ASTM A276, ASME SA276, ASTM A479, ASME SA479, AMS 5648, AMS 5653, AMS-QQ-S-763.

STEELMAKING EAF + AOD + CONTINUOUS CASTING

SOLUTION TREATED AT 1050°C +/-15°C / 1 min x mm / WATER.

RADIOACTIVITY CONTROL PERFORMED WITH A GAMMA SPECTROMETER: ASTM E181.

GAMMA ACTIVITY ON THE PRODUCTS BELOW 0.1 BQ/G ACCORDING TO EU RESOLUTION 2013/59/EURATOM, IAEA RS-G-1.7 AND IAEA SSG-17.

CORROSION TEST ACCORDING TO ASTM A262 PRACTICE E EN ISO 3651-2 PRACTICE A: SATISFACTORY.

HOT ROLLED

REDUCTION RATIO 144,9

CHEMICAL LADLE ANALYSIS ACCORDING TO ASTM A751 - EN ISO 14284

Control lot No. - Weight :020000882533

81.638 KG

ELEMENTS

	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
OBTAINED	0,021	0,34	1,78	0,027	0,023	0,072	16,74	2,08	10,18	0,38

ELEMENTS

Co
OBTAINED
0,17

HARDNESS TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000882713

3.347 KG

SPECIFICATION

ENISO6506

HARDNESS TEST HB TESTING METHOD: 10/3000

OBTAINED

248

TENSILE TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000882713

3.347 KG

SPECIFICATION

EN-ISO6892-1

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT

RM	RP02	A5	Z	RP1
MPA	MPA	%	%	MPA
		5.0 D		
OBTAINED	696	480	36,9	596
	681	472	41,9	587
	676	475	44,9	582
	672	468	43,2	584

211012-007

TT014-6

DATE 13.07.2021

BARBARA VIETTI MV(WORKS INSPECTOR) - ELECTRONICALLY GENERATED CERTIFICATE

-Cogne



COGNE ACCIAI SPECIALI S.p.a.

ITALY - 11100 AOSTA - VIA PARAVERA, 16
TEL +39.0165.3021 - FAX +39.0165.302296
CAP. SOC. 200.000.000 EUR INT. VERS.
C.F. 02187360967
VAT: IT00571320076 - R.E.A. n. AO-50474

Company with Management Systems certified
according to ISO 9001, IATF 16949, EN 9100 and
ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2021038746
PAGE 2/2

EDDY CURRENT INSPECTION OF SURFACE ACCORDING TO EN 10277-1 Class.3: SATISFACTORY.
DIMENSIONAL CONTROL ACCORDING TO EN 10278 AND ASTM A484: SATISFACTORY.

TENSILE TEST

Control lot No. - Weight : 020000882713 - 3.347 KG
SPECIFICATION ASTMA370-E8-0.5"SPEC

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	TS KSI	YS02 KSI	RA %	EL4 %
OBTAINED	99	69	76,0	4,0 D 46,4



NO WELDING REPAIR ON THE MATERIAL.

THE MATERIAL IS FREE OF ANY MERCURY, MERCURY COMPOUNDS AND OR RADIUM CONTAMINATION AT TIME OF SHIPMENT AND WAS PRODUCED WITHOUT USING OZONE DEPLETING SUBSTANCES OF CLASS I AND II.

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ.ITT COMPLYING WITH API6A Annex M.

VISUAL INSPECTION OF SURFACE AND DIMENSIONAL CONTROL ACCORDING TO EN10221 CLASS C, EN 10060 AND ASTM A484: SATISFACTORY.

MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.

ANTIMIX TEST: SATISFACTORY

DOCUMENT ISSUED IN AGREEMENT WITH TUEV BAYERN(11.1972) WAVING OF COUNTERSIGNING (SEE TUEV BAYERN LETTER DATED 17.01.80).

ALL THE NORMS MENTIONED ARE INTENDED IN THEIR LAST REVISION AT THE DATE OF ISSUE OF THIS DOCUMENT.

COUNTRY OF MELTING AND ORIGIN: ITALY, THE MATERIAL COMPLIES WITH FAR DFARS

252.225-7009 ALT 1.

THE ABOVE ARE TRUE AND CORRECT RESULTS OF TESTS ON SAMPLES OF THE MATERIAL. RESULTS ARE CONFORM TO THE SPECIFICATION(S) APPLICABLE AND ARE RECORDED.

THE RECORDING OF FALSE, FICTIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER U.S. FEDERAL STATUTES.

INSPECTOR'S STAMP LF

MATERIAL IN COMPLIANCE WITH THE NORSOK M-630 MDS S01

The products delivered are conforming to EN10088-5 and bear the CE marking on the basis of the test results here reported and the continuous surveillance, assessment and approval by MPA NRW (certificate no. 0432-CPR-00166-01)

Material produced according to the system #Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011#



211012-007

DATE 13.07.2021

BARBARA VIETTI MV(WORKS INSPECTOR) - ELECTRONICALLY GENERATED CERTIFICATE

-Cogne

C.M.F.+NUOVA TECNO 3 S.R.L.
Via E. Fermi, 11 B/C
Zona Ind.le P.I.P. - 26013 CREMA (CR)
Cod. Fisc.-P. IVA 00981530199
Tel. 0373.204298 Fax 0373.204306

REGULATORY AFFAIRS - Product Information

Stock Shapes – PVDF, nature



We confirm that the raw material, which we use for manufacturing our semi finished products fulfils the requirements below :

National Sanitation Foundation	NSF-61
Food & Drug Administration	FDA (CFR 21, 177.2510)
United States Pharmacopela	USP Class 6
Factory Mutual Insurance Co.	FM 4910
Dairy Equipment	3A Sanitary Standard

BSE/TSE

Raw material supplier does not use any substance of animal origin in the composition of this product. So, they consider that the product to be free of BSE (Bovine Spongiform Encephalopathy) and TSE (Transmissible Spongiform Encephalopathies) and they do not conduct any test.

C.M.F.+NUOVA TECNO 3 S.R.L.
Via E. Fermi, 11 B/C
Zona Ind.le P.I.P. - 26013 CREMA (CR)
P. IVA 00981530199
Tel. 0373.204298 - Fax 0373.204306

The present certificate corresponds with our actual knowledge. However customers should verify regulatory status periodically, if needed



Sanitary Process Components, Inc.
7711-104 Welborn Street
Raleigh, NC 27614
Phone: (919) 981-6584
Fax: (919) 981-6594

CERTIFICATE OF COMPLIANCE / CONFORMANCE

Date Issued: May 5, 2021

Customer:	AERRE INOX S.R.L.	Quantity:	200
Customer Order Number:	675		
SPC Order Number:	11749		
SPC Line Number:	1		
SPC Part Number:	DD03-GTFML		

Figure Number (Description):

DD03-GTFML – TFM (modified PTFE) backed EPDM (AA7LTZ)

Additional Information:

Part No	Description	Qty	Cure Date	Lot No	Exp. Date
DD03-GTFM-S	1/2" DN8 Diaphragm WR TFM (PTFE) modified shield	200	07/2019	131071	07/2029

Extra Description: Grade TFM diaphragms (modified PTFE) have a Limited Shelf Life of 10 years. Grade TFM diaphragms (modified PTFE) comply with the FDA Code of Federal Regulations Title 21 Section 177.1550 and have been tested in accordance with and successfully passed the U.S. Pharmacopeia 40 Class VI @250 °F (121°C) for 60 minutes and 158°F (70°C) for 24 hours, Biological Reactivity test, Section 87 and Section 88. The maximum temperature rating for Grade TFM diaphragms (modified PTFE) is 329°F (165°C).

Grade TFM diaphragms (modified PTFE) are in compliance to:

10993-5: "Tests for Cytotoxicity – In Vitro Methods

10993-10: "Tests for Irritation and Sensitization".

10993-11: "Tests for Systemic Toxicity."

We hereby confirm that for the production of Diaphragm Direct® Grade TFM diaphragms, no material of animal origin has been used during the entire production process. Grade TFM diaphragms is of synthetic (PTFE resin) origin.

Grade TFM diaphragms (modified PTFE) complies with EMEA/410/01 Rev. 3 July 2011.

Grade TFM diaphragms (modified PTFE) is not made with natural rubber latex.

Grade TFM diaphragms (modified PTFE) meets ASME BPE Part SG, Section 3.3 & 3.4.

Part No	Description	Qty	Cure Date	Lot No	Exp. Date
DD03-GEPDM-B	1/2" DN8 Cushion EPDM Backing	200	07/2019	153699	07/2029

Extra Description: Grade E7 - EPDM (AA7LTZ) diaphragms have a Limited Shelf Life of 10 years.

Grade E7 - EPDM (AA7LTZ) diaphragms comply with the FDA Code of Federal Regulations Title 21 Section 177.2600 and have been tested in accordance with and successfully passed the U.S. Pharmacopeia 40 Class VI @250 °F (121°C) for 60 minutes and 158°F (70°C) for 24 hours, Biological Reactivity test, Section 87 and Section 88.

The maximum temperature rating for Grade E7 - EPDM (AA7LTZ) backing cushions is 302°F (150°C).

Grade E7 - EPDM (AA7LTZ) diaphragms are in compliance to:

10993-5: "Tests for Cytotoxicity – In Vitro Methods

10993-10: "Tests for Irritation and Sensitization".

10993-11: "Tests for Systemic Toxicity."

Grade E7 - EPDM (AA7LTZ) complies with 21CFR 177.2600 (e) "Rubber articles intended for repeated use in contact with aqueous food." Exception: Grade E7 - EPDM (AA7LTZ) does not comply with 177.2600 (f) "Rubber articles intended for repeated use in contact with fatty food".

Grade E7 - EPDM (AA7LTZ) is Animal Derived Ingredient Free.

Grade E7 - EPDM (AA7LTZ) complies with EMEA/410/01 Rev. 3 July 2011.

Grade E7 - EPDM (AA7LTZ) diaphragms meets ASME BPE Part SG, Section 3.3 & 3.4.

Grade E7 - EPDM (AA7LTZ) is not made with natural rubber latex.

Grade E7 - EPDM (AA7LTZ) is peroxide cured.

210511-002

❖ SQDSPEC: Storage: Until the elastomer parts are installed, they should be kept in a covered, adequately ventilated, and dry location in their original container. Storage temperature should not cycle rapidly; and should be maintained between 40 and 120 degrees F.

DD03-GTFML

Certificate of Compliance / Conformance – continued

Customer:	AERRE INOX S.R.L.	Quantity:	200
Customer Order Number:	675		
SPC Order Number:	11749		
SPC Line Number:	1		
SPC Part Number:	DD03-GTFML		

Comments:

We certify that the components on the above referenced purchase order meet the requirements of the purchase order, applicable drawing(s), and our ISO 9001: 2015 manufacturing, testing, and inspection procedures to assure an acceptable quality level applicable to the product.

Denise LaPlace
Manager, Senior Quality Assurance (or representative)
(This certificate was created electronically and is valid without signature)



210511-002

*This certificate is correct at the time of issue and no changes shall be made to it without the authorization of the issuing Diaphragm Direct® Quality Control Manager.
If any unauthorized changes are made the certificate is void.*

CERTIFICATE ID (20210505-1)

Certificate of Conformity



Article no.	Retrace Code/Batch/Lot no.	Date of Manufacture
1092235	10139073	2021-10-27

Article description
DURAN® GL 45 Laboratory glass bottle, pressure plus, pressure resistant, clear, without screw cap and pouring ring, 500 ml

DURAN® Product Certificate

The articles listed under "article number" are hereby confirmed to have been produced using a quality system conforming to ISO 9001 and comply with the DWK Life Sciences quality standards. The specified glass products are manufactured from DURAN® glass.

DURAN® glass is classified as a Borosilicate 3.3 glass as defined by ISO 3585:1998.

Declaration of Product Conformity

DURAN® glass bottles are compliant with the requirements of the following guidelines, laws and regulations:

The dimensions correspond to the standard ISO 4796-1.

Prior to delivery, all production batches are subjected to statistical quality inspections corresponding to the standard DIN ISO 2859 -1. We herewith confirm that this lot passed the statistical quality inspection according to ISO 2859-1.

DURAN® – Glass type 1 Composition

SiO ₂	B ₂ O ₃	Na ₂ O/K ₂ O	Al ₂ O ₃
81 %	13 %	4 %	2 %

DURAN® - Chemical and physical properties

Coefficient of expansion	Acid resistance	Acid resistance	Hydrolytic resistance	Alkalis resistance
$3,3 \times 10^{-6} \text{ K}^{-1}$	Class S 1 (DIN 12116)	$\leq 100 \mu\text{g Na}_2\text{O per dm}^2$ (ISO 1776)	Class HGB 1 (ISO 719) / Class HGA 1 (ISO 720)	Class A 2 (ISO 695)

220330-002

SSB-VETRO-0500P



Certificate of Conformity



Article no.	Retrace Code/Batch/Lot no.	Date of Manufacture
1092235	10139073	2021-10-27

Directive Conformity

Due to its high hydrolytic resistance, DURAN® is a neutral glass respectively glass type I and consequently fulfills the requirements of the following pharmacopoeias:

- USP <660> Containers - Glass
- EP (3.2.1) Glass containers for pharmaceutical use

The arsenic content in DURAN® Glass is less than 0.1 ppm acc. to EP (3.2.1) and 0.1 µg per g acc. USP <660> / Arsenic <211>.

DURAN® is compliant with JP <7.01> Test for Glass Containers for Injections (Soluble Alkali).

DURAN® is certified for food applications.

All DURAN® Pressure Plus products are pressure resistant according to EN 1595 from -1 bar through +1.5 bar.

The confirmations and information in this certificate apply solely to goods originating from DURAN®. For further processed products these details are not binding.

Statement on BSE/TSE for products manufactured from DURAN® glass:

We hereby confirm that DURAN® glass consists of raw material without any biological origin or genetically modified organism (GMO). No materials of animal origin are used or added during the manufacturing process.

The manufacturing of DURAN® glass involves minimum melting temperatures of 1500 °C for several hours, where all the raw materials are melted together. After forming, the glass products are tempered in an oven at more than 400 °C before being slowly cooled. Due to the high temperatures, we can act on the assumption that any and all biological substances are destroyed during production.

Therefore, DURAN® glass can be considered as free of Bovine Spongiform Encephalopathy (BSE) and Transmissible Spongiform Encephalopathy (TSE).

Please note that analysis of the raw materials and/or finished goods for presence of the above mentioned substances is not performed on a routine basis.

Certified by:


Mariska Jefferson
Quality Manager

Date: 2022-03-28



220330-002

Certificate of Quality

Acrodisc®CR

Acrodisc®CR 0.2µm 200/cs
Part Number: 4225

Lot Number: 8838828A

Pall Corporation certifies that the specified product meets or exceeds our specifications and criteria for release.

Product specifications, including materials of construction and performance specifications are available on www.pall.com/laboratory where the datasheet for the above part number can be viewed or downloaded.

Please note our new quality certificate format which is being introduced across product lines and address any questions to LFB_QARA_compliance@pall.com.

Process Quality Systems

Site of Manufacture is signified in the footer of this certificate. The Quality Management System for our manufacturing sites are certified to ISO 9001:2015. Certificates are held in quality section of our website. These products / product packaging carry a lot number / date code to facilitate traceability to suppliers' materials and Pall production records. Users should satisfy themselves that these materials are suitable for use in their specific application.

For compliance statements, plant certificates and data sheets visit our website:
<https://www.pall.com/en/about-pall/quality.html>

Storage conditions: Store at a temperature between 5 °C and 30 °C in dry conditions. Do not expose to direct sunlight, radiation or direct weather conditions. Store in original shipping bag and boxing. Ensure shipping bag and any seals are intact prior to use.

This product is not supplied sterilized. Pall recommends a customer shelf life of 5 years from the date of manufacture for non-sterile products.

Pall Laboratory products are designed for laboratory applications only. This product is not approved for use in medical, clinical, surgical or other patient applications. If you require further assistance in product selection for your chosen application, please contact Labcustomersupport@pall.com or call 1-800-521-1520.



JOSE CUBERO, Quality Manager, Pall Fajardo
Road 194 Km 0.4 - Pall Blvd. 99 & 100,
Fajardo, FAJARDO 00738, USA

Date of Manufacture: February, 2021

**DECLARATION OF
CONFORMITY**in accordance with
DIN EN ISO/IEC 17050

Customer No.: -

Date: 30.09.2021
Phone: +41 44 306 6259
Issuer: GAAX**Declaration subject:**

Item description:

PFA / FEP-O-SEAL O-Rings with VMQ (Silicone) Core
PFA / FEP-O-SEAL O-Rings with FKM (VITON) Core
PFA / FEP-O-SEAL O-Rings with EPDM Core

Quantity:

Country of origin:

USA

The product described above meets the requirements stipulated in the following guidelines/standards:

Approval:	FEP Cover	PFA Cover	VMQ Core VMQ 70.72-01	FKM Core FKM 75.72-01	EPDM Core EPDM 70.72-01
FDA 21 CFR §177.1550	Yes	Yes	No	No	No
FDA 21 CFR § 177.2600/2660	No	No	Yes	No	No
EG 1935/2004	Yes	No	No	No	No
EU 10/2011	Yes	No	No	No	No
SR 817.023.21	Yes	No	No	No	No
3A Sanitary Standards (Formulation only)	Yes	Yes	No	No	No
USP class VI, Chapter <88> (In Vivo) - 70° C	Yes	Yes	No	No	No
RoHS 2015/863/EU,	Yes	Yes	Yes	Yes	Yes
REACH 1907/2006, Annex XIV	Yes	Yes	Yes	Yes	Yes
Free from Phthalates and Bisphenol A (BPA)	Yes	Yes	Yes	Yes	Yes
Animal (ADI) and BSE/TSE/AFO free	Yes	Yes	Yes	Yes	Yes
Latex-from free	Yes	Yes	Yes	Yes	Yes
Free from PFOA	Yes	Yes	Yes	Yes	Yes
2003/11/EG; 2006/122/EC	Yes	Yes	Yes	Yes	Yes

Angst + Pfister Group Engineering

Zurich, 30.09.2021

A.Gabor

Y. Riedo

Engineering Data Administrator

Senior Engineer

(Place and date of issuance)

(Name and signature or equivalent authentication of authorized persons)



Certificate of Conformance

Part Number: UP864FEP-SIL-30X3MM
Product Description: ENCAPSULATED O-RING FEP/SILICONE, 30X3MM

Invoice No.: 81037025

Gasket Material: FEP (Fluorinated Eth. Prop.) Encapsulated Silicone®(inside)
Gasket Material Lot Number: Q95546 **D.O.M.:** 01-10-2020 **EXP D.:** 01-10-2045
Customer: Aerre Inox S.r.l.
Your Part No:

Compound #: CMD-1054

PO #: 341

Ultrapharma BV certifies that the material supplied is in accordance with the requirements of the order and has been manufactured in accordance with the following guidelines listed below:

Compliance

- Odor: None
- Meets: FDA CFR 177.1550 (FEP)
- Meets: FDA CFR 177.2600 (Silicone)
- Meets: USP Class VI-121°C <88> (FEP)
- Meets: EC1935/2004 (EC10/2011)
- Conform ADIF (Animal Derived Ingredient Free) BSE/TSE

Material Specifics

Properties tested	Requirements	Results
Hardness, (Shore A) (ISO 868)	90±5	90
Tensile Strength, (MPa) (ISO 37)	-(min)	n/a
Elongation, (%) (ASTM D4894)	-(min)	n/a
Compression load (23°C) (14MPa)		10%
Specific Gravity (g/cm³)		n/a

General Advice

SIP	very good
CIP	very good
Minerals Oils & Grease	very good
WFI	good
Sterilization	excellent
Steam Sterilization	excellent



Quality assurance

Signature: 

Date: 05/04/2022

Further information on this material may be obtained by contacting Customer Services at Ultrapharma BV

Ultrapharma B.V. - De Droogmakerij 12 - 1851 LX Heiloo - NL - VAT: NL8109.63.115.B01
 Tel: +31 (0) 85 6200 900 Mail: info@ultrapharma.com Web: www.ultrapharma.com

ORM0300-30-X+F