

BV/201149010



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INSPECTION CERTIFICATE & MILL TEST REPORT - EN 10204 3.1

Customer : VAN LEEUWEN STAINLESS B.V. INDUSTRIEWEG 26 4153 BW BEEFD THE NETHERLANDS	ISO 9001:2008-TUV NORD REG.No-44100011170-E3	INVOICE NUMBER / MTR NO.	928644/ 8
	EXPIRY DATE : 21.01.2013	DATE	29.07.2011
	AD 2000 MERKBLATT WO-072021423 WP 1022/11	MATERIAL SPECIFICATION	EN 10222-S :2000
	AS PER W2/W9/W10 EXPIRY DATE FEBRUARY 2014	PURCHASE ORDER NO.	101183
	PED 97/23/EC QMS REG.NO.072021423 WZ 1022/11	DESCRIPTION	STAINLESS STEEL FORGED FLANGES
	EXPIRY DATE: FEBRUARY 2014		

CHEMICAL ANALYSIS

Sr.No:	Item Description	Dimension Specification	Heat No	Qty	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Ti	%N
31	WNR 1.4404 300323.9 TYPE 11 PN16	EN1092-1	23754	10.000	0.0160	1.730	0.410	0.0100	0.0360	16.670	10.030	2.030	0.0030	0.04800
32	WNR 1.4404 DN50 TYPE 05 PN16	EN1092-1	86681	72.000	0.0190	1.710	0.440	0.0160	0.0370	16.720	10.080	2.040	0.0030	0.04750

MECHANICAL PROPERTIES

Sr.No	Heat No.	Tensile Strength (N/MM2)	Proof Stress Rp=0.2 % (N/MM2)	Proof Stress Rp=1.0% (N/MM2)	% Elongation LO=5D	% Reduction of Area	Hardness BHN	IMPACT TEST-CHARPY V-NOTCH AT +20 DEG. C(JOULES)			
								1	2	3	AVG
31	23754	526.790	226.650	270.390	60.60	74.91	146.0	208.0	200.0	197.0	202.0
32	86681	534.760	235.120	283.750	55.20	74.99	151.0	199.0	190.0	185.0	191.0

NACE CERT MELTING PROCESS HEAT TREATMENT DIMENSIONS SURFACE QUALITY PMI INTER GRANULAR CORROSION TEST MICRO OBSERVATION RADIOACTIVITY TEST REMARKS	: MATERIAL CONFORMS TO NACE MR 0175/ISO 15156 - 2009 & NACE MR 0103 - 2010 : INDUCTION / AOD (IRS) / CONCAST : SOLUTION ANNEALED AT 1050°C AND WATER QUENCHED : CONFORM WITH THE SPECIFICATION (100% INSPECTED) : SATISFACTORY : ROUGHNESS VALUE - Rz 12.5 TO 25 µm / Rz 3.2 TO 6.5 µm : NO OBJECTION (100% TESTED WITH MOBILE SPECTRO) : PASSED IGC TEST IN ACCORDANCE WITH DIN EN ISO 3651-2 : NO CARBIDE PRECIPITATION OBSERVED ON GRAIN BOUNDARIES : ALL THE ABOVE MATERIAL IS TESTED FOR RADIOACTIVITY AND FOUND WITH IN THE LIMIT OF BACKGROUND RADIATION : FLANGE FACE FINISH -RZ 150
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L/C Number : NLNLNL11M103617 L/C DATE : 03-01-2011

WE CERTIFY THAT THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIES WITH THE ORDER/CONTRACT AND IS OF INDIAN ORIGIN

<p>MANUFACTURER'S SYMBOL</p>	Der RWTÜV hat mit Schreiben vom 13.08.2001 auf die Gängenzeichnung verzichtet	<p>WORKS INSPECTOR</p>
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