


13V 2011 35004

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VIRAJ PROFILES LIMITED
(FORGING DIVISION)

SURVEY NO-140/1,SARAVALI & G-75 MIDC, TARAPUR, MAHARASHTRA, INDIA

CERTIFICATE - EN 10204 3.1

CUSTOMER : VAN LEEUWEN STAINLESS B.V. INDUSTRIEWEG 26, 4153 BW BEESD THE NETHERLANDS	MANUFACTURER'S SYMBOL 	ISO 9001 : 2008 - TÜV NORD-84190911170-03 EXPIRY DATE : 21-01-2013	MTR NO.	922195 - 3
		AD 2000 MERKBLATT WO REG. NO. 97 202 1423 WP 1022 08	DATE	16/02/2011
ORDER NO.: 929201		TECHNICAL REQUIREMENT ACC. TO AD MERKBLATT W2/W9/W10 EXPIRY DATE : FEBRUARY 2011	MATERIAL SPECIFICATION	ASTM A182-09 / ASME SA 182-09 / EN 10222-5
L/C NO.: NLNL1NL10M102959 DT: 14-10-2010		PED 97/23/EC QMS REG. NO. VF 404 1943 WEL 4024 / WD DATE : FEBRUARY 2011	GRADE	F316/316L / WNR 1.4404
			DIMENSIONAL SPECIFICATION	EN 1092 - 1
			STAINLESS STEEL FLANGES	

SR NO.	ITEM DESCRIPTION	HEAT NO.	QTY	%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Mo	%Ti	REMARKS
1	20/26.9 TYPE 01A	PN40	85298	50	0.020	1.72	0.43	0.018	0.037	16.68	10.02	2.04	525
2	40/48.3 TYPE 01A	PN40	85290	260	0.020	1.78	0.41	0.017	0.039	16.70	10.08	2.02	495
3	40/48.3 TYPE 01A	PN40	85290	40	0.020	1.78	0.41	0.017	0.039	16.70	10.08	2.02	495
4	300/323.9 TYPE 02A	PN10	21189	3	0.021	1.78	0.49	0.023	0.042	16.64	10.04	2.00	505
5	50 TYPE 05A	PN16	82173	100	0.021	1.76	0.44	0.009	0.040	16.65	10.05	2.04	735
6	50 TYPE 05A	PN40	84891	50	0.020	1.70	0.45	0.015	0.041	16.95	10.00	2.00	550
7	65 TYPE 05A	PN16	83604	30	0.020	1.70	0.57	0.012	0.039	16.54	10.06	2.04	670
8	15/21.3 TYPE 11B	PN40	84717	100	0.020	1.78	0.47	0.000	0.045	16.80	10.10	2.04	550

HEAT NO.	ITEM DESCRIPTION	TENSILE STRENGTH (N/mm ²)	PROOF STRESS		ELONGATION % (L ₀ =5D)	REDUCTION OF AREA %	IMPACT TEST (CHARPY V-NOTCH AT +20°C JOULES)				REMARKS	
			Rp0.2% (N/mm ²)	Rm % (N/mm ²)			1	2	3	AVG		
85298	20/26.9 TYPE 01A	PN40	574.94	252.14	308.16	55.80	59.52	163	180	156	166	
85290	40/48.3 TYPE 01A	PN40	538.68	240.45	279.73	60.40	72.64	229	211	233	224	
85290	40/48.3 TYPE 01A	PN40	538.68	240.45	279.73	60.40	72.64	229	211	233	224	
21189	300/323.9 TYPE 02A	PN10	962.42	256.36	298.15	52.20	74.28	223	206	211	213	
82173	50 TYPE 05A	PN16	561.79	282.43	329.38	57.80	70.00	181	173	168	174	
84891	50 TYPE 05A	PN40	549.47	281.66	330.37	51.60	70.51	178	164	152	168	
83604	65 TYPE 05A	PN16	582.00	276.89	325.32	56.60	72.11	156	169	172	166	
84717	15/21.3 TYPE 11B	PN40	558.23	270.59	320.22	67.20	73.03	178	165	180	174	

MELTING PROCESS : INDUCTION/AD (RS)CONCAST
 HEAT TREATMENT : SOLUTION ANNEALED AT 1050°C AND WATER QUENCHED
 DIMENSIONS : CONFORM WITH THE SPECIFICATION
 SURFACE INSPECTION : SATISFACTORY
 FLANGE FACE FINISH : < R_x 180
 PMI : NO OBJECTION(100% TESTED WITH MOBILE SPECTRO)
 INTER GRANULAR CORROSION TEST : PASSED IGC TEST IN ACCORDANCE WITH GAN EN ISO 3651-2
 MICRO OBSERVATION : NO CARBIDE PRECIPITATION OBSERVED ON THE GRAIN BOUNDARIES
 RADIOACTIVITY TEST : ALL THE ABOVE MATERIAL IS TESTED FOR RADIOACTIVITY AND FOUND WITH IN THE LIMIT OF BACKGROUND RADIATION

* CARACTERISTIQUES GARANTIES *
 La Société Viraj Forgings Ltd. garantit que les produits objet du présent certificat respectent en leur totalité les prescriptions de l'Article 15 de l'Arrêté Ministériel du 24 mars 1978 modifié.
 C<=0.25%, P<=0.035%, S<=0.035%
 Rp<=500 N/mm², Ec<=980 N/mm², A%L<=6,55VSojmax,16% en long. B(A.2)>=10500
 WE CERTIFY THAT THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIES WITH THE ORDER/CONTRACT AND IS OF INDIAN ORIGIN

Der RWTüV hat mit Schreiben vom 13.08.2001 auf die Gegenzeichnung verzichtet



INSPECTION'S STAMP



VIJAY KUMAR PILLAI
MANAGER Q.A.

Pos: 1

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