



Viraj Profiles Limited

INSPECTION CERTIFICATE & MILL TEST CERTIFICATE-DIN 50049/EN 10204 3.1

Customer:	STAPPERT SVERIGE AB G. SLATTHULTSVAGEN 3 SE-343 34 ALMHULT SVRIGE	Approved acc. To AD 2000-Merkblatt W0 and certified acc. To PED (97/23/EC) by Certification Body for Pressure Equipment of TÜV NORD System (Notified body, reg.no:0045)	MTR NO. 978290/ 1
		STEEL MAKING ROUTE INDUCTION MELTED / AOD	DATE 24.09.2014
			1.4301/1.4307 AS PER EN 10088-3, EN 10272, AD 2000 W2/W10
			ASIS 304/304L AS PER ASTM A 276 & ASME SA479
			EN 10003-1

CHEMICAL ANALYSIS (%)

Si	Mn	Si	P	S	Cr	Ni	Mo	Cu	Ti	Co	N
0.018	0.890	0.380	0.037	0.027	18.540	8.060	0.500	0.550	0.003	0.160	0.074
0.023	0.910	0.410	0.036	0.028	18.300	8.080	0.330	0.410	0.002	0.170	0.075
0.022	1.260	0.420	0.037	0.025	18.200	8.080	0.390	0.580	0.002	0.130	0.084
0.024	1.260	0.520	0.035	0.026	18.160	8.010	0.290	0.530	0.028	0.140	0.080
0.025	1.200	0.420	0.037	0.023	18.380	8.050	0.310	0.580	0.002	0.140	0.074

MECHANICAL PROPERTIES(EN 10002-1)

HEAT NO	SAMPLE NUMBER	DIRECTION	TEST TEMP. (Deg.C)	TENSILE STRENGTH (N/mm2)	PROF. STRESS (N/mm2)		%ELONGATION Le=4D	%REDUCTION AREA	SPECIMEN SIZE	TEST TEMP. (Deg.C)	CHARPY V-NOTCH(JOULES)			HARDNESS (BHN) (EN 10003-1)	
					Rp=0.2%	Rp=1.0%					1	2	3		AVG
96325	890000130318	L	25	641.00	301.00	343.00	46.00	57.00	55 x 10 x 10	25	132.00	134.00	130.00	132.00	190.00
96242	890000130340	L	25	641.00	301.00	341.00	47.00	58.00	55 x 10 x 10	25	132.00	134.00	130.00	132.00	190.00
96418	890000124685	L	25	651.00	306.00	346.00	46.00	57.00	55 x 10 x 10	25	132.00	130.00	134.00	132.00	193.00
96548	890000130341	L	25	634.00	298.00	339.00	47.00	58.00	55 x 10 x 10	25	128.00	130.00	134.00	131.00	188.00
96612	890000126641	L	25	664.00	312.00	352.00	46.00	57.00	55 x 10 x 10	25	130.00	132.00	128.00	130.00	197.00

MARKING : SIZE, GRADE, HEAT NO., LOGO & INSPECTOR STAMP
 HEAT TREATMENT : SOLUTION ANNEALED AT 1050°C AND WATER QUENCHED
 DIMENSIONS : CONFORM WITH THE SPECIFICATION
 ORIENTATION / LOCATION : STRIP SAMPLE FROM 1/3RD OF FLANGE END
 SURFACE INSPECTION : SATISFACTORY
 PMI : NO OBJECTION(100% TESTED WITH MOBILE SPECTRO)
 INTER CRYSTALLINE CORROSION TEST : PASSED IGC TEST IN ACCORDANCE WITH DIN EN ISO 3651-2
 MICRO OBSERVATION : NO CARBIDE PRECIPITATION OBSERVED ON GRAIN BOUNDARIES
 RADIO ACTIVITY TEST : MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION
 REMARKS : MATERIAL IS FREE FROM MERCURY CONTAMINATION, WELDING & WELD REPAIRS

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

VPL
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INSPECTOR STAMP
(SAURABH JAIN)

INSPECTOR STAMP

WORKS INSPECTOR

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