Viraj Profiles Limited

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

Approved acc. To AD 2000-Markblatt W0 and certified acc. To PED (97/23/EC) by Certification Body for Pressure Equipment of TUVNORD System (Notified body,reg.no:0045)

STEEL MAKING ROUTE INDUCTION MELTED / AOD

INVOICE / MTR NO.	62-989667/ 16
DATE	12.05.2015
CUSTOMER PURCHASE ORDER NO	10-185701/W
GRADE/MATERIAL	1.4401/1.4404
SPECIFICATION	
DIMENSIONAL SPECIFICATION	
	PEELED & POLISHED STAINLESS STEEL BRIGHT BARS

BUNDLE NOS. 1100343618,1100343619,

CHEMICAL ANALYSIS (%)

HEAT NO	SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	QTY(MT)	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	Ti	Co	N
37330	40.000 MM	ROUND	h9	6.00 - 6.20	16	0.972	0.017	1.600	0.360	0.023	0.039	16.850	10.070	2.020	0.470	0.001	0.170	0.072

MECHANICAL PROPERTIES(EN 10002-1)

HEAT NO	SAMPLE NUMBER	DIRECTION	TENSILE STRNGTH(N/mm2)	PROFF STRESS(N/mm2) Rp=0.2%	PROFF STRESS(N/mm2) Rp=1.0%	%ELONGATION Le=5D	%REDUCTION OF AREA	GRAIN SIZE	IMPACT TEST (TEST TEMP. AT RT)(EN 10045-1) CHARPY V-NOTCH(JOULES) 1	2	3	AVG	HARDNESS
37330	100005234370	L	642.00	378.00	409.00	51.00	72.00		148	150	152	150	188.00

MATERIAL CONFIRMS TO DIN EN 10088-3:2005,BS EN 10272:2008, EN 10277-1 Class 3.DIN EN 10278. DIN EN 10222-5.
INTERGRANULAR CORROSION TEST SATISFACTORY AS PER DIN EN ISO 3651-2. CERTIFIED AS PER EN10204 3.1 AND AD2000 W2&W10. PED 97/23/EC, NACE MR 0175-2009, NACE MR0103.
ASTM A 479-13. ASME SA 479/SA 479M, SA 182-11 COND.A. ASME ACC TO SECTION II PART A ED # 4.
GRADE:1.4401/1.4404, AISI 316/316L.PMI TEST: OK.STEEL MAKING ROUTE: INDUCTION MELTED / AOD.
DIMENSIONAL+VISUAL CHECK WITHOUT OBJECTION.
ULTRASONIC TEST ACCORDING TO EN 10228-4 TYPE 1a CLASS 3.

REMARKS : MINIMUM SOLUTION ANNEALING TEMPERATURE 1050°C, SOAKING TIME 01 HR/INCH WATER QUENCHED.
MATERIAL HAS BEEN TESETED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.

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

MANUFACTURER'S SYMBOL

VI 1
INSPECTOR STAMP

WORKS INSPECTOR

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FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

F14914
1/4" NPT M/F FXD 90 DEG ELBOW 10K 316L