

INSPECTION CERTIFICATE & MILL TEST CERTIFICATE EN 10204 -3.1

CUSTOMER : DAMSTAHL A/S DANMARKSVEJ 28 8680 SKANDERBORG DENMARK		Approved acc. To AD 2000-Markblatt W0 / W2		MTR NO.	990396/ 3
		and certified acc. To PED (97/23/EC) by		DATE	30.05.2015
		Certification Body for Pressure Equipment of		GRADE	1.4301 / 1.4307
		TUV NORD System (Notified body, reg. no. : 0045)		MATERIAL SPECIFICATION	EN 10088-3, EN 10088-5, EN 10272 & AD 2000 W2/W10
		STEEL MAKING ROUTE /		DIMENSIONAL SPECIFICATION	
		INDUCTION MELTED / AOD/ CC		DIN 1017 / EN 10058	
		HOT ROLLED ANNEALED & PICKLED (ID) FLAT BAR			

CHEMICAL ANALYSIS (%)

SR. NO.	ITEM DESCRIPTION	ORDER NO.	HEAT NO.	PIECES	QTY(MT)	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	Ti	Co	N
7	100 X 12 MM	527.022	98180	11	0.546	0.020	1.30	0.41	0.022	0.036	18.26	8.07	0.45	0.65	0.001	0.16	0.082

MECHANICAL PROPERTIES(EN 10002-1)

HEAT NO.	SAMPLE NUMBER	DIRECTION	TEST TEMP. (Deg. C)	TENSILE STRENGTH (MPa)	PROOF STRENGTH (MPa)		% ELONGATION Lo=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	
98180	890000153493	L	RT	661.00	311.00	352.00	46.00	57.00	55 x 10 x 10	RT	128	132	130	130	196

NACE CERT. : MATERIAL CONFORMS TO NACE MR0175/ISO 15156-2:2009 & NACE MR0103-2010

MARKING : SIZE, GRADE, HEAT NO., LOGO & INSPECTOR STAMP.

HEAT TREATMENT : SOLUTION ANNEALED AT 1050°C AND WATER QUENCHED

DIMENSIONS : CONFORM TO THE SPECIFICATION

ORIENTATION/LOCATION : STRIP SAMPLE FROM 1/3rd OF FLANGE END

SURFACE INSPECTION : SATISFACTORY

PMI : NO OBJECTION(100% TESTED WITH MOBILE SPECTRO)

INTER GRANULAR 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.

USES : CORROSION RESISTANT STEEL ANGLE/ FLAT/CHANNEL FOR BUILDING CONSTRUCTION OR CIVIL ENGINEERING.

REGULATED SUBSTANCE : NO PERFORMANCE DETERMINED

REMARKS : MATERIAL IS FREE FROM MERCURY CONTAMINATION, WELDING & WELD REPAIRS .

OTHER APPLICABLE SPECIFICATIONS:

ASTM A276/A479, ASME SA276/SA479

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




 0045

VPL
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SAURABH JAIN
WORKS INSPECTOR

MANUFACTURER'S SYMBOL

INSPECTOR STAMP

0045-CPR-1364

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