



CHANDAN STEEL LIMITED
(GOVT OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 2008 CERTIFICATE No 04 100 011022 F3

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L/c No

L/c Date

F824 QC 09A / 02 / 10 12 2012

MILL TEST / INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204 2005

Consignee DAMSTAHL a/s Danmarksvej 28, DK - 8660 Skanderborg DENMARK	Test Certificate No	EXP/00819 - 24/2014-2015
	Date of Issue	08 11 2014
	P O No	514702
	SC_No & Date	14-15/00401, Dt 09 09 2014
	Invoice No & Date	EXP/00819/2014-15 Dt 08 11 2014

PRODUCT DESCRIPTION				LENGTH		Net Wt	
STAINLESS STEEL FLAT BARS [HRAP] [CONDITION - 1D]				Ordered	Actual	1287 Kgs	
				4 8 - 5 3 Mtrs			4 8 - 5 3 Mtrs

Article No	Item No	Heat No	Material/Grade	Size mm	Tolerance	Process Route
-	6585	CH-1390	1 4301/1 4307	120 x 15 mm	DIN 1017/EN 10058	Electric Melting, A O D Refining, Continuous Casting

CHEMICAL COMPOSITION (Weight %)

	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Co	N
Min	-	-	-	-	-	17.50	-	8.00	-	-	-	-
Max	0.030	1.00	2.00	0.045	0.030	19.50	-	10.50	-	-	-	0.1000
Results	0.027	0.45	1.75	0.044	0.012	18.02	-	8.06	-	-	-	0.0700

MECHANICAL PROPERTIES

Specified Values	Test Method - EN 10002-1					Hardness EN ISO 6506-1 (BHN)	Test Method - DIN EN ISO 148 - 1 Charpy (V) Impact Test (2mm) at 20 0C (Joules) Sample Size - 10 x 10 x 55 mm			
	Proof Strength N/mm ² /MPa		Tensile Strength N/mm ² /MPa (Rm)	Elongation after Fracture A %	Reduction of Area %		I	II	III	Avg
	0.2% (Rp0.2)	1% (Rp1.0)								
Results	295	341	610	55	65	170-173	144	134	140	139.33

Remarks

- Condition 1D (Hot Rolled, Shot-Blasted and Pickled)
 - Solution annealed at 1050 °C
 - PMI test done 100% & found Satisfactory
 - The material is fully killed and calcium treated
 - Material is free from radio-active contamination
 - Intergranular Corrosion test carried out as per EN/ISO 3651-2-1998 (Test method A) found satisfactory
 - The material conforms to EN 10088-5 2009, EN 10272-2008 & AD2000 W2-2008 Specification
 - Additionally requirement meets to DIN 1017 & EN 10058 specifications
 - Approved acc to AD 2000-Merkblatt W0 and certified acc to PED (97/23/EC) by Certification Body for Pressure Equipment of TUV NORD Systems (notified body, reg no 0045)
 - Location of sample - off centre, Direction - Longitudinal, Test Temp - Room Temp, Shape of Test Piece - Flat
 - Marking details - Company Logo, Size, Grade & Heat No
 - The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin
- BUNDLE NO 39 to 41 COLOUR BLUE



Intended use Building construction or civil engineering

Regulated substance No performance determined

It is hereby certified that the above results are true and correct in every details and are meeting the requirements of specification & purchase order

D O P No 1 4301/1 4307/FL

D O P can be seen here www.chandansteel.net

B S RAUTELA
MANAGER - Q A /WORKS INSPECTOR