



CHANDAN STEEL LIMITED
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)
ISO 9001:2008 CERTIFICATE No 04100 011022-E3



0001201817

ADM OFFICE 504 SUKH SAGAR, N S PATKAR MARG MUMBAI 400 077 INDIA

Tel 91-22-66290600 Fax 91-22-66290633/34

Website www.chandansteel.net

Email csl@chandansteel.net

WORKS Plot No 35, G I D C, Umbergaon

Dist Valsad, Gujarat - 396 171

Tel 91-260-308 9999 Fax 91-260 308 9872

E-mail exports@chandansteel.net

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/01222- 29/2013-2014		Date of Issue 10 03 2014		P O NO. 499282		SC_No & Date 13-14/00604, Dt 11 12 2013		Invoice No & Date EXP/01222/2013-14 Dtd 10 03 2014	
PRODUCT DESCRIPTION STAINLESS STEEL FLAT BARS [HRAP]						LENGTH				Net Wt.					
						Ordered		Actual		505 Kgs					
						4 8 - 5.3 Mtrs		4 8 - 5 3 Mtrs.							
Article No.	Item No	Heat No	Grade DIN	Size mm/inch	Tolerance	Process Route									
-	6518	CH-103	1 4404	70 x 10 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.	-	-	-	-	-	16.50	2.00	10.00	-	-	-	-			
Max.	0.030	1.00	2.00	0.045	0.030	18.50	2.50	13.00	-	-	-	0.1100			
Results	0.021	0.44	1.77	0.043	0.017	16.95	2.07	10.03	-	-	-	0.0650			
MECHANICAL PROPERTIES															
Specified Values	Test Method - EN 10002-1					Hardness (BHN)	Test Method - DIN EN ISO 148 - 1 Charpy (V) Impact Test (2mm) at 20 °C (Joules) Sample Size - 10 x 7.5 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	322	365	616	52	61	184-187	136	142	152	143.33					
Remarks:															
1. Hot Rolled, Shot-Blasted and Pickled						2. Solution annealed at 1050 °C									
3. PMI test done 100% & found Satisfactory.						4. The material is fully killed and calcium treated									
5. Cold Bend Test Satisfactory.															
6. Material is free from radio-active contamination.															
7. Intergranular Corrosion test carried out as per EN/ISO 3651-2-1998 (Test method A) found satisfactory															
8. Micro structure reveals- equiaxed grains of Austenite & free from carbide Precipitation.															
9. The material conforms to EN 10088-3-2005, EN 10272-2008, AD2000 W2- 2008 & DIN 1017/EN 10058 Specifications.															
10. Appoved 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)															
11. Location of sample - off centre, Direction - Longitudinal, Test Temp - Room Temp , Shape of Test Piece - Flat.															
12. Marking details - Company Logo, Size, Grade & Heat No.															
13. The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin															
BUNDLE NO 26						COLOUR. RED									

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

B S RAUTELA
MANAGER - Q.A./WORKS INSPECTOR