



CHANDAN STEEL LIMITED
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001 : 2008 CERTIFICATE No. 04 100 011022-E3

ADM. OFFICE: 504, SUKH SAGAR, N. S. PATKAR MARG, MUMBAI 400 007, INDIA

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Email : cst@chandansteel.net

L/c. No.:

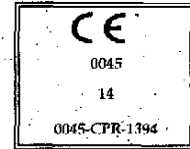
L/c. Date:

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



F824 QC 09A / 02 / 10.12.2012

MILL TEST / INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204 : 2005

Consignee DAMSTAHL GmbH Raiffeisenstrasse 6 – 8, 40764 Langenfeld GERMANY						Test Certificate No. : EXP/01200- 15/2014-2015 Date of Issue : 02.02.2015 P. O. No. : 365.194 SC_No. & Date : 14-15/00357, Dt.18.08.2014 Invoice No. & Date : EXP/01200/2014-15 Dt.02.02.2015					
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PRODUCT DESCRIPTION STAINLESS STEEL FLAT BARS [HRAP] [CONDITION - 1D]						LENGTH		Net Wt. 1176 Kgs.			
						Ordered	Actual				
						4.8 - 5.3 Mtrs.	4.8 - 5.3 Mtrs.				

Article No.	Item No.	Heat No.	Material/Grade	Size mm	Tolerance	Process Route					
-	6489	CH-1021	1.4301/1.4307 304/304L	60 x 8 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.	-	-	-	-	-	18.00	-	8.00	-	-	-	-
Max.	0.030	1.00	2.00	0.045	0.030	19.50	-	10.50	-	-	-	0.1000
Results	0.025	0.53	1.80	0.038	0.017	18.30	-	8.05	-	-	-	0.0870

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 °C (Joules) Sample Size - 10 x 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	316	365	614	52	62	184-187	134	132	142	136.00

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.
- Micro structure reveals- equiaxed grains of Austenite & free from carbide Precipitation.
- The material conforms to EN 10088-5:2009, EN 10272-2008, ASTM A276-13 & AD 2000 W2/W10 Specification.
- Additionally requirement meets to DIN 1017 and 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.: 17 & 18

COLOUR : WHITE

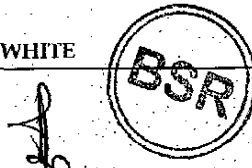
Intended use : Building construction or civil engineering.

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