



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

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

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L/c. No.:

L/c. Date:



WORKS: Plot No. 35, G. I. D. C., Umbergaon

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F824 QC 09A/ 02/ 10.12.2012

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

Consignee <b>DAMSTAHL GmbH</b> Raiffeisenstrasse 6 – 8, 40764 Langenfeld GERMANY	Test Certificate No. : EXP/00018 - 06/2015-2016 Date of Issue : 16.04.2015 P. O. No. : 370.991 SC_No. & Date : 14-15/00950, Dt.17.03.2015 Invoice No. & Date : EXP/00018/2015-16 Dt.16.04.2015
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PRODUCT DESCRIPTION STAINLESS STEEL FLAT BARS [HRAP] [CONDITION - 1D]	LENGTH		Net Wt.
	Ordered	Actual	1037 Kgs.
	5.9 - 6.0 Mtrs.	5.9 - 6.0 Mtrs.	

Article No.	Item No.	Heat No.	Material/Grade	Size mm	Tolerance	Process Route
-	6555	CH-2156	1.4301/1.4307 304/304L	100 x 12 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	0.027	0.59	1.65	0.037	0.018	18.18	-	8.02	-	-	-	0.0690

MECHANICAL PROPERTIES										
Specified Values	Test Method :- EN ISO 6892-1					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 10 x 55 mm			
	Proof Strength N/mm <sup>2</sup> /MPa		Tensile Strength N/mm <sup>2</sup> /MPa (Rm)	Elongation after Fracture A %	Reduction of Area %		I	II	III	Avg.
	0.2%(Rp0.2)	1%(Rp1.0)								
Results	314	358	618	54	64	177-180	136	144	140	140.00

**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.
- Appoved 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.: 43 & 52

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/FL

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



B. S. RAUTELA

MANAGER - Q.A./WORKS INSPECTOR