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Works : Plot # 31 to 36, 45 to 49/2, 142 (Exp. Area), G.I.D.C. Umbergaon, & Survey No. 102/2 & 102/3, Village - Dehri, District - Valsad, Gujarat - 396171, India.
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CHANDAN
STEEL LIMITED
True Stainless Value

(GOVERNMENT OF INDIA RECOGNISED EXPORT HOUSE)

ISO 9001:2015 CERTIFICATE NO. 04 100 011022

F860(F824) QC 09/00/11.01.2018

L/C NO. & DATE :

MILL TEST CERTIFICATE / INSPECTION CERTIFICATE

ACCORDING TO EN 10204-3.1:2005

CONSIGNEE :				TEST CERTIFICATE NO. : TC-0229-23-24/01 DATE OF ISSUE : 05/10/2023 P.O. NO. : LB0338 S/C NO. & DATE : 23-24/00010, Dt. 05/09/2023 INVOICE NO. & DATE : TC-0229-23-24, Dt. 05/10/2023									
PRODUCT DESCRIPTION STAINLESS STEEL ANGLES [HRAP]				LENGTH				NET WEIGHT					
				ORDERED		ACTUAL							
				20-22 FEET		20-22 FEET		862 LBS					
ARTICLE #	ITEM #	HEAT #	GRADE AISI	SIZE IN		TOLERANCE	PROCESS ROUTE						
-	A6L01000008	CH-20123	316/316L S31600/S31603	1X1X1/8		ASTM A484	Electric Melting, A.O.D. Refining, Continuous Casting						
CHEMICAL COMPOSITION (WEIGHT %)													
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	Nb/Cb	N	
MIN	-	-	1.25	-	-	16.00	2.00	10.00	-	-	-	-	
MAX	0.030	1.00	2.00	0.040	0.030	18.00	3.00	14.00	1.00	-	-	0.1000	
RESULTS	0.022	0.45	1.75	0.040	0.018	16.93	2.02	10.05	0.44	-	-	0.0650	
MECHANICAL PROPERTIES Test Method :- EN ISO 6892-1 & EN ISO 6506-1													
SPECIFIED VALUES	YIELD STRENGTH N/mm ² /MPa 0.2% (Rp0.2)		TENSILE STRENGTH N/mm ² /MPa (Rm)		ELONGATION after Fracture (A) % 4D / 5D		REDUCTION OF AREA (%)		HARDNESS HBW				
MIN	206		517		30		50		140				
MAX	-		792		-		-		255				
RESULTS	367		688		37		61		225-228				
Remarks :													
1. Hot Rolled, Shot-Blasted and Pickled.													
2. PMI Test done 100% & found satisfactory.													
3. Solution Annealed at 1050 C and soaked for 30 minutes and water quenched.													
4. Grain size No. 5-7 as per ASTM E-112:13 Test Method.													
5. Material is free from mercury contamination.													
6. Material is free from Radio-Active Contamination.													
7. Macrostructure - C2R2S2 as per ASTM E381-01													
8. Micro structure reveals- equiaxed grains of Austenite & free from carbide Precipitation.													
9. Intergranular Corrosion Test found satisfactory as per ASTM A262-15 (Pr. E)													
10. Location of sample - Off centre, Direction - Longitudinal, Test Temp - Room Temp., Shape of Test Piece - Flat.													
11. Marking Details - Company Logo, Size, Grade & Heat No.													
12. The material is manufactured / melted in Chandan Steel Limited Mill and is of "Indian Origin".													
13. No welding / weld repairs was performed on this material.													
14. The material conforms to ASTM A276/A276M-17, ASTM A484/A484M-20a, ASTM A479/A479M-20, ASME SA479/SA-479M-21 SECTION II-PART A, AMS-QQ-S-763D, AMS-5647K & AMS-5639J Specifications.													
15. AMS 5648M (AISI 316 / 316L), AMS 5653H (AISI 316 / 316L) specification													
BUNDLE NO. : 9N66						COLOUR : WHITE							

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 - QUALITY ASSURANCE