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CDXB4359-21



**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**

<b>CONSIGNEE :</b>				<b>TEST CERTIFICATE NO. :</b> TC-0279-22-23/21								
				<b>DATE OF ISSUE :</b> 22/12/2022								
				<b>P.O. NO. :</b> LA6809								
				<b>S/C NO. &amp; DATE :</b> 22-23/00074, Dt. 10/08/2022								
				<b>INVOICE NO. &amp; DATE :</b> TC-0279-22-23, Dt. 22/12/2022								
<b>PRODUCT DESCRIPTION</b> STAINLESS STEEL ANGLES [HRAP]				<b>LENGTH</b>		<b>NET WEIGHT</b>						
				<b>ORDERED</b>	<b>ACTUAL</b>							
				20-22 FEET	20-22 FEET	2132 LBS						
<b>ARTICLE #</b>	<b>ITEM #</b>	<b>HEAT #</b>	<b>GRADE AISI</b>	<b>SIZE IN</b>	<b>TOLERANCE</b>	<b>PROCESS ROUTE</b>						
-	A6L01000008	CH-17961	316/316L S31600/S31603	1X1X1/8	ASTM A484	Electric Melting, A.O.D. Refining, Continuous Casting						
<b>CHEMICAL COMPOSITION (WEIGHT %)</b>												
	<b>C</b>	<b>Si</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Cr</b>	<b>Mo</b>	<b>Ni</b>	<b>Cu</b>	<b>Ti</b>	<b>Nb/Cb</b>	<b>N</b>
<b>MIN</b>	-	-	1.25	-	-	16.00	2.00	10.00	-	-	-	-
<b>MAX</b>	0.030	1.00	2.00	0.040	0.030	18.00	3.00	14.00	1.00	-	-	0.1000
<b>RESULTS</b>	0.021	0.45	1.65	0.036	0.007	16.92	2.05	10.06	0.45	-	-	0.0860
<b>MECHANICAL PROPERTIES</b>												
<b>Test Method :- EN ISO 6892-1 &amp; EN ISO 6506-1</b>												
<b>SPECIFIED VALUES</b>	<b>YIELD STRENGTH</b> N/mm <sup>2</sup> /MPa 0.2% (Rp0.2)		<b>TENSILE STRENGTH</b> N/mm <sup>2</sup> /MPa (Rm)		<b>ELONGATION after</b> Fracture (A) % 4D / 5D		<b>REDUCTION OF AREA</b> (%)		<b>HARDNESS</b> HBW			
<b>MIN</b>	206		517		30		50		140			
<b>MAX</b>	-		792		-		-		255			
<b>RESULTS</b>	364		678		35		61		219-222			
<b>Remarks :</b>												
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. Grainsize 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. Macro Structure - C2R2S2 of ASTM E 381-01.												
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 /melt in Chandan Steel 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 SA-479/SA-479M-19 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												
<b>BUNDLE NO. : 3D01,3D03</b>												
<b>COLOUR : WHITE</b>												

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