



**CHANDAN STEEL LIMITED**  
(GOVT. OF INDIA RECOGNISED EXPORT HOUSE)  
ISO 9001 : 2015 CERTIFICATE No. 04 100 011022

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L/c. No. : ---  
L/c. Date: ---

WORKS: Plot No. 35, G. I. D. C., Umbergaon  
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**INSPECTION CERTIFICATE 3.1**  
ACCORDING TO EN 10204

Stainless & Nickel Alloy Piping Products 11555 W Fairmont Pkwy La Porte, TX 77571 US Phone: 832-617-8200, FAX : 832-617-8201							Test Certificate No. : EXP/22-23/00258 -05 Date of Issue : 09.06.2022 P.O. No. : 4027121-BERKELEY Invoice No. & Date : EXP/22-23/00258 Dtd.09.06.2022						
<b>ITEM DESCRIPTION</b> STAINLESS STEEL FORGED & FULLY MACHINED FLANGES													
Sr.No.	ARTICLE NO.	Heat No.	Pcs	Box No.	Wt.Kgs	Grade	Item	Process Route					
10	SO4L01015-CHA	CH-16561	115	4	160.56	F304/304L	1-1/2" SORF 150 LBS	Electric Induction Melting, A.O.D. Refining Continuous Casting & Hot Forging.					
30	WN4L0140020-CHA	CH-16561	173	4 & 8	466.90	F304/304L	2" WNRF 150 LBS 40S						
13	SO4L01030-CHA	CH-16492	52	4	211.01	F304/304L	3" SORF 150 LBS						
23	TH4L01025-CHA	CH-16492	65	4	231.12	F304/304L	2-1/2" THRF 150 LBS						
-	-	-	-	-	-	-	-						
<b>CHEMICAL COMPOSITION (Weight %)</b>													
Sr.No.	ARTICLE NO.	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N	OTHERS
10	SO4L01015-CHA	0.028	0.37	1.66	0.031	0.018	18.74	-	8.03	-	-	0.056	-
30	WN4L0140020-CHA	0.028	0.37	1.66	0.031	0.018	18.74	-	8.03	-	-	0.056	-
13	SO4L01030-CHA	0.023	0.44	1.63	0.031	0.004	18.75	-	8.05	-	-	0.085	-
23	TH4L01025-CHA	0.023	0.44	1.63	0.031	0.004	18.75	-	8.05	-	-	0.085	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>MECHANICAL PROPERTIES</b>													
Sr.No.	ARTICLE NO.	0.2% Yield Strength N/mm <sup>2</sup> (R <sub>p0.2</sub> )		Tensile Strength N/mm <sup>2</sup> (R <sub>m</sub> )		Elongation %	Reduction of Area %	Hardness (H.B.W.)					
10	SO4L01015-CHA	271		585		50	69	168-172					
30	WN4L0140020-CHA	271		585		50	69	168-172					
13	SO4L01030-CHA	272		582		56	71	169-173					
23	TH4L01025-CHA	272		582		56	71	169-173					
-	-	-		-		-	-	-					
<b>Remarks</b>													
<ol style="list-style-type: none"> <li>The material is solution annealed at minimum 1050 °C and water quenched.</li> <li>Material is free from mercury and radio-active contamination and is found within the limits of the background radiation.</li> <li>PMI test 100% satisfactory.</li> <li>Inter-Granular Corrosion Test as per ASTM A262-15(2021) (Pr.E):- Satisfactory.</li> <li>The material conforms to ASTM A 182 - 20, ASME SA 182 - 21 &amp; Dimension conforms to ASME B16.5 - 20 Specification.</li> <li>Visual and Dimensions inspection done and found satisfactory.</li> <li>The material conforms to NACE MR0175/ISO 15156-3:2015 &amp; NACE MR0103-2015.</li> <li>Marking Details - MATERIAL SPECIFICATION, SIZE, GRADE, HEAT NO., CHANDAN</li> <li>The material is manufactured /melt in Chandan Steel Mill and is of Indian Origin.</li> <li>Country of Melt - INDIA.</li> </ol>													

We hereby certify that, the material described herein, and supplied are in compliance with the requirements of the order.



*Q.A.*  
**V.Y. NARAYANAN**  
SR. MANAGER Q. A.