



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

ADM. OFFICE: 504, SUKH SAGAR, N. S. PATKAR MARG,
Chowpatty MUMBAI 400 007, INDIA
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Website : www.chandansteel.net
Email : csl@chandansteel.net
I/c. No. : ---
I/c. Date: ---

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, Dist. - Valsad, Gujarat - 396171 India.
Tel. : (+91) 260 7128999/800/802.
Email : info@chandansteel.com
GSTIN - 24AAAACC4713B1ZG

INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204

ALLIED STAINLESS GROUP 7200 Mykawa Road Houston, Texas 77033 Phone: 800-969-5565	Test Certificate No. : EXP/23-24/01441 -04 Date of Issue : 29.12.2023 P. O. No. : PO60788 Invoice No. & Date :EXP/23-24/01441 Dtd.29.12.2023
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ITEM DESCRIPTION
STAINLESS STEEL FORGED & FULLY MACHINED FLANGES

Sr.No.	ARTICLE NO.	Heat No.	Pcs	Box No.	Wt.Kgs	Grade	Item	Process Route
17	4L1SR1.5	CH-20219	90	82	122.00	F304/304L	1-1/2" SORF 150 LBS	Electric Induction Melting, A.O.D. Refining, Continuous Casting & Hot Forging
21	4L1BR12	235252	2	82	88.75	F304/304L	12" BLRF 150 LBS	
32	4L1KRS2	CH-20556	85	82	184.03	F304/304L	2" SWRF 150 LBS 40S	
102	4L3WRA6	CH-20505	28	82 & 153	518.14	F304/304L	6" WNRF 300 LBS 10S	
5	4L1WRS4	CH-20966	120	87	870.00	F304/304L	4" WNRF 150 LBS 40S	

CHEMICAL COMPOSITION (Weight %)

Sr.No.	ARTICLE NO.	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N	OTHERS
17	4L1SR1.5	0.020	0.59	1.71	0.040	0.009	18.20	-	8.06	-	-	0.083	-
21	4L1BR12	0.021	0.46	1.65	0.039	0.009	18.17	-	8.10	-	-	0.083	-
32	4L1KRS2	0.024	0.43	1.85	0.041	0.012	18.38	-	8.03	-	-	0.079	-
102	4L3WRA6	0.022	0.44	1.73	0.040	0.014	18.35	-	8.05	-	-	0.075	-
5	4L1WRS4	0.025	0.53	1.78	0.040	0.002	18.05	-	8.07	-	-	0.065	-

MECHANICAL PROPERTIES

Sr.No.	ARTICLE NO.	0.2% Yield Strength N/mm ² (R _{p0.2})	Tensile Strength N/mm ² (R _m)	Elongation %	Reduction of Area %	Hardness (H.B.W.)
17	4L1SR1.5	271	562	61	74	163-167
21	4L1BR12	262	564	60	75	168-171
32	4L1KRS2	263	560	59	75	155-158
102	4L3WRA6	269	562	62	78	164-167
5	4L1WRS4	264	562	61	76	155-159

Remarks:

- The material is solution annealed at minimum 1050°C and water quenched.
- Material is free from mercury and radio-active contamination and is found within the limits of the background radiation.
- PMI test 100% satisfactory.
- Inter-Granular Corrosion Test as per ASTM A262-15(2021) (Pr.E):- Satisfactory.
- The material conforms to ASTM A 182 - 22, ASME SA 182 - 21 & Dimension confirms to ASME B16.5 - 20 Specification.
- Visual and Dimensions inspection done and found satisfactory.
- The material conforms to NACE MR0175/ISO 15156-3:2015 & NACE MR0103-2015.
- The steel making is by Chandan Steel Limited, India.
- Country of Melt - INDIA.



V. Y. Narayanan

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

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