



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

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Email : csl@chandansteel.net
L/c. No. : ----
L/c. Date: ----

WORKS: Plot No. 35, Survery No.102/2 & 3 G. I. D. C., Umbergaon.
Village : Deheri, Tal- Umbergaon.
Dist Valsad, Gujarat - 396 171. INDIA.
Tel: 91-260-256 2066 / 4367 / 1166. Fax: 91-260-256 2287
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INSPECTION CERTIFICATE 3.1
ACCORDING TO EN 10204

TEXAS PIPE & SUPPLY CO. 2330 HOLMES ROAD HOUSTON, TEXAS 77051-1098 USA	Test Certificate No. : EXP/22-23/01591 -11 Date of Issue : 22.03.2023 P. O. No. : 339459-01 Invoice No. & Date : EXP/22-23/01591 Dtd.22.03.2023
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ITEM DESCRIPTION
STAINLESS STEEL FORGED & FULLY MACHINED FLANGES

PO. Sr.No.	ARTICLE NO.	HEAT NO.	Pcs	Box No.	Wt.Kgs	Grade	Item	Process Route
49	-	S7473	22	99	664.02	F304/304L	10" BLRF 150 LBS	Electric Induction Melting, A.O.D. Refining, Continuous Casting & Hot Forging
50	-	S7473	4	66	181.97	F304/304L	12" BLRF 150 LBS	
52	-	CH-16293	28	66	197.93	F304/304L	3" BLRF 300 LBS	
18	-	CH-18524	53	92	373.00	F304/304L	3" WNRF 300 LBS 10S	
53	-	CH-18524	4	66	47.63	F304/304L	4" BLRF 300 LBS	

CHEMICAL COMPOSITION (Weight %)

PO. Sr.No.	ARTICLE NO.	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Ti	N	OTHERS
49	-	0.028	0.32	1.82	0.037	0.003	18.47	-	8.25	-	-	0.081	-
50	-	0.028	0.32	1.82	0.037	0.003	18.47	-	8.25	-	-	0.081	-
52	-	0.022	0.44	1.76	0.035	0.013	18.10	-	8.03	-	-	0.070	-
18	-	0.024	0.41	1.67	0.035	0.006	18.44	-	8.11	-	-	0.080	-
53	-	0.024	0.41	1.67	0.035	0.006	18.44	-	8.11	-	-	0.080	-

MECHANICAL PROPERTIES

PO. Sr.No.	ARTICLE NO.	0.2% Yield Strength N/mm ² (Rp0.2)	Tensile Strength N/mm ² (R _m)	Elongation %	Reduction of Area %	Hardness (H.B.W.)
49	-	268	569	52	69	165-169
50	-	268	569	52	69	165-169
52	-	249	570	53	75	162-166
18	-	257	585	56	82	168-171
53	-	257	585	56	82	168-171

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.
- 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.

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

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

