



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,
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WORKS: Plot No. 35, G. I. D. C., Umbergaon
Dist Valsad, Gujarat - 396 171, INDIA
Tel.: 91-260-256 2066 / 4367 / 1166. Fax.: 91-260-256 2287
E-mail : exports@chandansteel.net

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

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/20-21/01645 -10 Date of Issue : 31.03.2021 P. O. No. : PO23482 Invoice No. & Date : EXP/20-21/01645 Dtd.31.03.2021 |
|---|--|

ITEM DESCRIPTION
STAINLESS STEEL FORGED & FULLY MACHINED FLANGES

| Sr.No. | ARTICLE NO. | Heat No. | Pcs | Box No. | Wt.Kgs | Grade | Item | Process Route |
|--------|-------------|----------|-----|---------------|---------|-----------|-----------------|---|
| 27 | 4L1BR3 | CH-14208 | 537 | 134,135 & 138 | 2745.18 | F304/304L | 3" BLRF 150 LBS | Electric Induction Melting, A.O.D. Refining, Continuous Casting & Hot Forging |
| 23 | 4L1BR6 | CH-11830 | 226 | 136,137 & 138 | 2496.82 | F304/304L | 6" BLRF 150 LBS | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |
| - | - | - | - | - | - | - | - | |

CHEMICAL COMPOSITION (Weight %)

| Sr.No. | ARTICLE NO. | C | Si | Mn | P | S | Cr | Mo | Ni | Cu | Ti | N | OTHERS |
|--------|-------------|-------|------|------|-------|-------|-------|----|------|----|----|-------|--------|
| 27 | 4L1BR3 | 0.026 | 0.39 | 1.88 | 0.039 | 0.005 | 18.09 | - | 8.06 | - | - | 0.086 | - |
| 23 | 4L1BR6 | 0.028 | 0.40 | 1.77 | 0.039 | 0.003 | 18.49 | - | 8.07 | - | - | 0.083 | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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.) |
|--------|-------------|---|---|-----------------|------------------------|----------------------|
| 27 | 4L1BR3 | 279 | 596 | 55 | 83 | 169-173 |
| 23 | 4L1BR6 | 277 | 580 | 53 | 75 | 166-168 |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |
| - | - | - | - | - | - | - |

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 A - 262 - 17 (Pr.E) satisfactory.
- The material conforms to ASTM A 182 - 19, ASME SA 182 - 19 & Dimension confirms to ASME B16.5-17 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.