



R.N. GUPTA & COMPANY LTD., G.T.ROAD DORAHA,UNIT -II TAHSIL PAYAL, LUDHIANA -141421(INDIA)

MATERIAL / MILL TEST CERTIFICATE EN 10204 : 2004 - 3.1



CERTIFICATE NO:- 8633 DATE 23/02/2023
 RAW MATERIAL SPECIFICATION :- ASTM A182-19/ASME SA182-19
 DIMENSIONALSPECIFICATION :- ANSI/ASME B16.5-2020

NAME OF BUYER :-
 ALLIED STAINLESS

P.O NO. PO47473 DT.17/11/2022
 INV.NO. RNG/EXP/22-4954 DT.20/02/2023

MECHANICAL REQUIRMENTS

Sr.No.	Description	Grade	Melting Practice	Qty (PCS)	Heat No.	Supp. Code	Yield Strength 205 Mpa. Min. at 0.2%	Tensile Strength 515 Mpa. Min.	Elongation 30% Min.	Reduction of Area 50% Min.	Hardness (HBW).	Heat Treatment	Soaking Time (Minutes)
9	8 150# SORF 304/304L 4L1SR8	304/304L	EIF-AOD-CCM	300	L385	35	338.06	588.50	64.28	78.26	152-154	SOLUTION ANNEALED	75
10	2 150# BLRF 304/304L 4L1BR2	304/304L	EIF-AOD-CCM	50	L386	35	350.04	576.70	68.94	77.45	156-158	SOLUTION ANNEALED	60
11	3 150# BLRF 304/304L 4L1BR3	304/304L	EIF-AOD-CCM	11	L340	35	336.83	553.80	57.80	75.00	156-158	SOLUTION ANNEALED	60
12	3 150# BLRF 304/304L 4L1BR3	304/304L	EIF-AOD-CCM	15	L381	35	345.19	562.50	63.18	78.88	154-156	SOLUTION ANNEALED	60
13	6 150# BLRF 304/304L 4L1BR6	304/304L	EIF-AOD-CCM	30	L396	35	327.83	552.90	62.70	75.04	156-158	SOLUTION ANNEALED	60
14	6 150# BLRF 304/304L 4L1BR6	304/304L	EIF-AOD-CCM	186	L376	35	339.94	564.30	63.78	78.82	152-154	SOLUTION ANNEALED	60
15	2 1/2 150# SORF 304/304L 4L1SR2.5	304/304L	EIF-AOD-CCM	79	L391	35	316.54	574.70	63.88	78.37	154-156	SOLUTION ANNEALED	60
16	1 150# BLRF 304/304L 4L1BR1	304/304L	EIF-AOD-CCM	26	L375	35	367.09	599.80	68.22	82.04	154-156	SOLUTION ANNEALED	60

CHEMICAL REQUIRMENTS

Sr.No.	Heat No.	Grade	CHEMICAL REQUIRMENTS												
			%C 0.030 Max	%Mn 2.000 Max	%Si 1.00 Max.	%S 0.030 Max.	%P 0.045 Max.	%Cr 18.00-20.00	%Ni 8.00-11.00	%Mo	%Cu	%Ti	%N 0.10 Max.	Other's	PREN
9	L385	304/304L	0.019	1.660	0.26	0.015	0.035	18.25	8.09	0.39			0.088		20.95
10	L386	304/304L	0.020	1.770	0.26	0.016	0.035	18.22	8.04	0.39			0.095		21.02
11	L340	304/304L	0.021	1.680	0.28	0.021	0.039	18.25	8.09	0.339			0.085		20.73
12	L381	304/304L	0.021	1.870	0.28	0.011	0.025	18.47	8.11	0.27			0.097		20.90
13	L396	304/304L	0.020	1.790	0.28	0.008	0.037	18.56	8.11	0.38			0.090		21.26
14	L376	304/304L	0.206	1.850	0.26	0.006	0.024	18.30	8.04	0.31			0.087		20.70
15	L391	304/304L	0.022	1.750	0.25	0.020	0.027	18.31	8.22	0.41			0.080		20.94
16	L375	304/304L	0.021	1.660	0.29	0.012	0.019	18.31	8.11	0.30			0.086		20.68

Remarks:

- * PMI test 100% done found satisfactory.
- * The material is solution annealed at 1060°C for Min 1/2 H/Inch and water quenched
- * Inter-Granular Corrosion Test accordance with ASTM A 262 Practice "E"--Satisfactory.
- * All material supplied is free of Mercury contaminatuon and no Mercury bearing equipment was used during manufacturing.
- * Material is free from Mercury and radioactive contamination and is found within limits of natural background radiation.
- * The material conforms to ASTM A 182-19/ASME SA 182-19 & Dimension confirms to ASME B16.5-20 Specification.
- * Visual and Dimensions inspection done and found satisfactory.
- * The Material conforms to NACE MR 0175-15/ISO 15156-3-15 & NACE MR 0103-15
- *Country of Manufacture - INDIA
- *Country of Melt - INDIA

For R.N. GUPTA & COMPANY LTD

Page No : 2 of 6

AJAY KUMAR BHARTI [METALLURGIST]