



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:- 8289 DATE 17/10/2022
 RAW MATERIAL SPECIFICATION :- ASTM A182-19/ASME SA182-19
 DIMENSIONALSPECIFICATION :- ANSI/ASME B16.5-2020

NAME OF BUYER :-
 ALLIED STAINLESS

P.O NO. PO38660 DT.22/04/2022
 INV.NO. RNG/EXP/22-4578 DT. 11/10/2022

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)
1	8 150# BLRF 316/316L 6L1BR8	316/316L	EIF-AOD-CCM	200	L347	47	350.40	594.30	69.42	81.95	156-158	SOLUTION ANNEALED	75
2	1 300# LJ 316/316L 6L3L1	316/316L	EIF-AOD-CCM	100	L371	47	352.69	566.10	60.42	74.71	158-160	SOLUTION ANNEALED	60
3	8 150# WNR 10S 316/316L 6L1WRA8	316/316L	EIF-AOD-CCM	626	L367	47	351.67	566.00	64.36	78.82	154-156	SOLUTION ANNEALED	75
4	8 150# WNR 40S 316/316L 6L1WRS8	316/316L	EIF-AOD-CCM	76	L365	47	342.07	552.00	57.10	75.08	156-158	SOLUTION ANNEALED	75
5	1 1/2 150# THRD RF 316/316L 6L1TR1.5	316/316L	EIF-AOD-CCM	1000	L371	47	352.69	566.10	60.42	74.71	158-160	SOLUTION ANNEALED	60
6	1 1/2 150# SWRF SCH40S 316/316L 6L1KRS1.5	316/316L	EIF-AOD-CCM	250	L371	47	352.69	566.10	60.42	74.71	158-160	SOLUTION ANNEALED	60
7	2 150# LJ 316/316L 6L1L2	316/316L	EIF-AOD-CCM	500	L371	47	352.69	566.10	60.42	74.71	158-160	SOLUTION ANNEALED	60
8	1 1/2 150# BLRF 316/316L 6L1BR1.5	316/316L	EIF-AOD-CCM	250	L368	35	346.43	553.70	59.64	69.08	156-158	SOLUTION ANNEALED	60

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 16.00-18.00	%Ni 10.00-14.00	%Mo 2.00-3.00	%Cu	%Ti	%N 0.10 Max.	Other's	PREN
1	L347	316/316L	0.019	1.620	0.260	0.013	0.037	16.73	10.14	2.04			0.062		24.45
2	L371	316/316L	0.026	1.540	0.365	0.014	0.040	16.11	10.16	2.03			0.073		23.98
3	L367	316/316L	0.022	1.770	0.481	0.008	0.043	16.72	10.13	2.06			0.079		24.78
4	L365	316/316L	0.022	1.660	0.370	0.016	0.043	16.78	10.10	2.05			0.077		24.78
5	L371	316/316L	0.026	1.540	0.365	0.014	0.040	16.11	10.16	2.03			0.073		23.98
6	L371	316/316L	0.026	1.540	0.365	0.014	0.040	16.11	10.16	2.03			0.073		23.98
7	L371	316/316L	0.026	1.540	0.365	0.014	0.040	16.11	10.16	2.03			0.073		23.98
8	L368	316/316L	0.023	1.660	0.306	0.012	0.043	16.75	10.17	2.07			0.060		24.54

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 182-16/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

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AJAY KUMAR BHARTI [METALLURGIST]