



R.N. GUPTA & COMPANY LTD., C-55, FOCAL POINT, LUDHIANA -141 010 (INDIA)  
 MATERIAL / MILL TEST CERTIFICATE EN 10204 : 2004 - 3.1



NAME OF BUYER

CERTIFICATE NO. 19535 DATE 26/02/2022

RAW MATERIAL SPECIFICATION : ASTM A105-21/ASME SA105-19

SPECIFICATION FOR INSPECTION : ANSI/ASME B16.5-2017

P.O NO. 71445 DT. 22/12/2021

INVOICE NO. EXP/21-2871 DT. 22/02/2022

MECHANICAL REQUIREMENTS											
Sr. No.	Description	Qty (PCS)	Heat No.	Supp. Code	Y.S(Psi) Min	T.S(Psi) Min	E% Min	R.A% Min	Heat Treatment	Soaking Time (Min.)	Hardness BHN
9	3 1/2 150# SOFF FLGS	50	H7833	19	50794	77031	33.72	68.57	AS FORGED	60	154 - 156
10	6 150# BLRF FLGS	48	H7856	20	48928	79918	33.56	69.21	NORMALISED		150 - 152
11	6 150# BLRF FLGS	99	H7856	20	50845	75902	33.70	69.43	AS FORGED		152 - 154
12	3 150# SORF FLGS	300	H7842	20	49618	82081	33.90	68.68	AS FORGED		154 - 156
13	3 150# SORF FLGS	300	H7842	20	49618	82081	33.90	68.66	AS FORGED		154 - 156
14	3 150# SORF FLGS	300	H7842	20	49618	82081	33.90	68.66	AS FORGED		154 - 156
15	3 150# SORF FLGS	300	H7842	20	49618	82081	33.90	68.66	AS FORGED		154 - 156
16	3 150# SORF FLGS	300	H7842	20	49618	82081	33.90	68.66	AS FORGED		154 - 156

CHEMICAL REQUIREMENTS														
Sr. No.	Heat No.	SPECIFIED ELEMENTS					UNSPECIFIED ELEMENTS							
		C.E. 0.47% Max	C 0.35 Max	Min 0.60-1.05	P 0.035 Max	S 0.04 Max	Si .10 -0.35	Cu 0.40 Max	Ni 0.40 Max	Cr 0.30 Max	Mn 0.12 Max	V 0.05 Max	Pb 0.010 Max	Al 0.020 Min.
9	H7833	0.41	0.19	1.23	0.022	0.006	0.25	0.007	0.006	0.021	0.003	0.001	0.003	0.033
10	H7856	0.39	0.20	0.94	0.033	0.008	0.28	0.054	0.021	0.056	0.006	0.001	0.003	0.029
11	H7856	0.39	0.20	0.94	0.033	0.008	0.28	0.054	0.021	0.056	0.006	0.001	0.003	0.029
12	H7842	0.38	0.20	0.91	0.031	0.007	0.26	0.054	0.022	0.091	0.007	0.001	0.002	0.022
13	H7842	0.38	0.20	0.91	0.031	0.007	0.26	0.054	0.022	0.091	0.007	0.001	0.002	0.022
14	H7842	0.38	0.20	0.91	0.031	0.007	0.26	0.054	0.022	0.091	0.007	0.001	0.002	0.022
15	H7842	0.38	0.20	0.91	0.031	0.007	0.26	0.054	0.022	0.091	0.007	0.001	0.002	0.022
16	H7842	0.38	0.20	0.91	0.031	0.007	0.26	0.054	0.022	0.091	0.007	0.001	0.002	0.022

Material in accordance with NACE MRO-175-2015/ISO-15156 and NACE MRO-103-2015  
 All Products were manufactured, sampled, tested and inspected solely by the manufacturer shown on this Test Report in accordance with indicated specification and were found to meet the requirements.  
 No Weld Repair was performed and all products are free of Mercury Contamination and Radioactivity.  
 The Material is produced with Fine Grain Practice.  
 Note:- We hereby confirm that our QA system comply with the requirements of Annex I, section 4.3 of PED 2014/68/EU and it is certified by M/s DNV GL vider Certificate No. 4487-2014-CE-IND-DNV-01 Dated 31-03-2023 ISO 9001:2015 Certificate No. IS159025-2014-IND-FOA Valid up to 22/07/2023. Products also conform to requirements of ASTM A105/ASME SA105  
 ALL NORMALISED MATERIALS ARE HEAT TREATED AT TEMP. 920 DEGREE CENTIGRADE.

For R.N. GUPTA & COMPANY LTD. Page No : 2  
 AJAY KUMAR BHARTI (METALLURGIST)