



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



CERTIFICATE NO. 16433 DATE 11/05/2020

NAME OF BUYER

RAW MATERIAL SPECIFICATION : ASTM A105-18/ASME SA105-17

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

P.O NO. 70524 DT. 26/02/2020

INVOICE NO. EXP/20-2009 DT. 07/05/2020

MECHANICAL REQUIREMENTS

Sr. No.	Description	Qty (PCS)	Heat No.	Supp. Code	Y.S(P.SI) Min 36,000	T.S(P.SI) Min 70,000	E% Min 22%	RA% Min 30%	Heat Treatment	Soaking Time (Min.)	Hardness BHN 137-197
17	6 150# SOFF FLGS	5	H7045	19	54640	80192	28.96	67.19	AS FORGED		156 - 158
18	6 150# SOFF FLGS	8	H7144	19	49267	72615	32.04	67.51	AS FORGED		142 - 144
19	6 150# SOFF FLGS	50	H7033	19	51253	82699	33.82	69.18	AS FORGED		156 - 158
20	6 150# SOFF FLGS	5	H6564	19	48706	79341	34.20	68.58	AS FORGED		152 - 154
21	3 150# WNFF STD FLGS	33	H7059	20	54058	80717	30.46	67.36	AS FORGED		154 - 156
22	3 150# WNFF STD FLGS	109	H7099	20	48993	73719	30.28	67.04	AS FORGED		152 - 154
23	3 150# WNFF STD FLGS	74	H7127	20	48950	79905	30.24	66.99	AS FORGED		152 - 154
24	3 150# WNFF STD FLGS	216	H7127	20	48950	79905	30.24	66.99	AS FORGED		152 - 154

CHEMICAL REQUIREMENTS

Sr. No.	Heat No.	SPECIFIED ELEMENTS						UNSPECIFIED ELEMENTS						
		C.E. 0.47% Max	C 0.35 Max	Mn 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	Mo 0.12 Max	V 0.05 Max	Pb 0.010 Max	Al 0.020 Min
		17	H7045	0.41	0.20	1.23	0.018	0.009	0.22	0.002	0.008	0.010	0.003	0.003
18	H7144	0.41	0.20	1.21	0.022	0.014	0.24	0.015	0.002	0.008	0.002	0.003	0.001	0.029
19	H7033	0.42	0.21	1.23	0.018	0.005	0.23	0.006	0.008	0.010	0.009	0.002	0.010	0.026
20	H6564	0.41	0.20	1.25	0.020	0.014	0.22	0.007	0.010	0.006	0.004	0.010	0.010	0.025
21	H7059	0.40	0.21	0.93	0.026	0.014	0.24	0.092	0.029	0.098	0.014	0.005	0.010	0.027
22	H7099	0.38	0.20	0.95	0.023	0.012	0.22	0.038	0.024	0.063	0.005	0.004	0.006	0.030
23	H7127	0.40	0.21	0.95	0.024	0.015	0.28	0.087	0.047	0.100	0.010	0.004	0.005	0.027
24	H7127	0.40	0.21	0.95	0.024	0.015	0.28	0.087	0.047	0.100	0.010	0.004	0.005	0.027

Material in accordance with NACE MRO 176-2015/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.

For R.N. GUPTA & COMPANY LTD.

AJAY KUMAR BHARTI (METALLURGIST)

No Weld Repair was performed and all products are free of Weld Repair. All Products are free of Mercury Contamination and Radioactivity.
 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 BUSINESS ASSURANCE vide Certificate No. 4487 2014-CE-IND-DNV-GL Dated 31-03-2020 ISO 9001-2015 Certificate No. Is 39752-2008-AQ-IND-RvA Valid up to 22/07/2020. Products also conform to requirements of ASTM A105/ASME SA105
 ALL NORMALISED MATERIALS ARE HEAT TREATED AS PER 220 DEGREE CENTIGRADE.

6" 150# FS S/O FLANGE--FLAT FACE--

Heat # H7144

ON WELD FLANGE FF
 MATCONOR MN150SF13 6IN 150LB SLLI
 4709895
 09/03/2020



Stock