



CERTIFICATE NO. 20948 DATE 10/11/2022

NAME OF BUYER

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

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

P.O NO. 71825 DT. 31/08/2022

INVOICE NO. EXP/22-2397 DT. 09/11/2022

MECHANICAL REQUIREMENTS

Sr. No.	Description	Qty (PCS)	Heat No.	Supp. Code	Y.S(PSI) Min 36,000	T.S(PSI) Min 70,000	E% Min 22%	R.A% Min 30%	Heat Treatment	Soaking Time (Min.)	Hardness BHN 137-187
17	3 150# LJ FLGS	204	H8095	19	51443	80013	31.64	69.75	AS FORGED		154 - 156
18	3 150# LJ FLGS	96	H8052	19	52295	74756	30.68	67.31	AS FORGED		154 - 156
19	3 150# SOFF FLGS	126	H8052	19	52295	74756	30.68	67.31	AS FORGED		154 - 156
20	3 150# SOFF FLGS	24	H8095	19	51443	80013	31.64	69.75	AS FORGED		154 - 156
21	3 150# LJ FLGS	50	H8052	19	52295	74756	30.68	67.31	AS FORGED		154 - 156
22	4 150# SORF FLGS	208	H8108	19	51632	85894	31.42	69.91	AS FORGED		152 - 154
23	4 150# SORF FLGS	208	H8108	19	51632	85894	31.42	69.91	AS FORGED		152 - 154
24	4 150# SORF FLGS	208	H8108	19	51632	85894	31.42	69.91	AS FORGED		152 - 154

CHEMICAL REQUIREMENTS

Sr. No.	Heat No.	CHEMICAL REQUIREMENTS												
		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	H8095	0.41	0.20	1.23	0.017	0.007	0.24	0.005	0.002	0.019	0.002	0.001	0.001	0.030
18	H8052	0.41	0.20	1.21	0.019	0.007	0.23	0.005	0.003	0.020	0.003	0.002	0.001	0.028
19	H8052	0.41	0.20	1.21	0.019	0.007	0.23	0.005	0.003	0.020	0.003	0.002	0.001	0.028
20	H8095	0.41	0.20	1.23	0.017	0.007	0.24	0.005	0.002	0.019	0.002	0.001	0.001	0.030
21	H8052	0.41	0.20	1.21	0.019	0.007	0.23	0.005	0.003	0.020	0.003	0.002	0.001	0.028
22	H8108	0.41	0.20	1.22	0.018	0.009	0.23	0.004	0.004	0.019	0.002	0.001	0.001	0.026
23	H8108	0.41	0.20	1.22	0.018	0.009	0.23	0.004	0.004	0.019	0.002	0.001	0.001	0.026
24	H8108	0.41	0.20	1.22	0.018	0.009	0.23	0.004	0.004	0.019	0.002	0.001	0.001	0.026

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 Weld Repair. 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 vide Certificate No. 4487-2014-CE-IND-DNV-GL

Dated 31-03-2023 ISO 9001-2015 Certificate No. is 159822-2014-AQ-IND-RvA 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 : 3

AJAY KUMAR BHARTI (METALLURGIST)