



R.N. GUPTA & COMPANY LTD., C-55, FOCAL POINT, LUDHIANA -141 010 (INDIA)

MATERIAL / MILL TEST CERTIFICATE EN 10204 : 2004 - 3.1



CERTIFICATE NO. 18908 DATE 08/11/2021

NAME OF BUYER

RAW MATERIAL SPECIFICATION : ASTM A105-18/ASME SA105-19

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

P.O NO. 71302 DT. 08/09/2021

INVOICE NO. EXP/21-2395 DT. 06/11/2021

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
1	4 150# SORF FLGS	208	H7705	19	50138	78983	33.98	68.34	AS FORGED		154 - 156
2	4 150# SORF FLGS	66	H7705	19	50138	78983	33.98	68.34	AS FORGED		154 - 156
3	4 150# SORF FLGS	142	H7740	19	50845	82873	33.88	68.88	AS FORGED		156 - 158
4	4 150# SORF FLGS	208	H7740	19	50845	82873	33.88	68.88	AS FORGED		156 - 158
5	4 150# SORF FLGS	208	H7705	19	50138	78983	33.98	68.34	AS FORGED		154 - 156
6	4 150# SORF FLGS	208	H7705	19	50138	78983	33.98	68.34	AS FORGED		154 - 156
7	4 150# SORF FLGS	208	H7705	19	50138	78983	33.98	68.34	AS FORGED		154 - 156
8	4 150# SORF FLGS	208	H7705	19	50138	78983	33.98	68.34	AS FORGED		154 - 156

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.
		1	H7705	0.42	0.21	1.24	0.024	0.009	0.30	0.004	0.002	0.016	0.001	0.001
2	H7705	0.42	0.21	1.24	0.024	0.009	0.30	0.004	0.002	0.016	0.001	0.001	0.001	0.030
3	H7740	0.42	0.21	1.23	0.019	0.010	0.25	0.004	0.002	0.015	0.010	0.001	0.001	0.031
4	H7740	0.42	0.21	1.23	0.019	0.010	0.25	0.004	0.002	0.015	0.010	0.001	0.001	0.031
5	H7705	0.42	0.21	1.24	0.024	0.009	0.30	0.004	0.002	0.016	0.001	0.001	0.001	0.030
6	H7705	0.42	0.21	1.24	0.024	0.009	0.30	0.004	0.002	0.016	0.001	0.001	0.001	0.030
7	H7705	0.42	0.21	1.24	0.024	0.009	0.30	0.004	0.002	0.016	0.001	0.001	0.001	0.030
8	H7705	0.42	0.21	1.24	0.024	0.009	0.30	0.004	0.002	0.016	0.001	0.001	0.001	0.030

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.

For R.N. GUPTA & COMPANY LTD. Page No : 1

No Weld Repair was performed and all products are free of Weld Repair. All Products are free of Mercury Contamination and Radioactivity.

AJAY KUMAR BHARTI (METALLURGIST)

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.