



CERTIFICATE NO. 21932 DATE 15/05/2023

NAME OF BUYER
ALLIED FITTING L.P.

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

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

P.O NO. PO52223 DT. 28/02/2023

INVOICE NO. EXP/23-2073 DT. 10/05/2023

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	3 300# THRD RF FLG L3TR3	14	H7817	19	50309	80769	33.72	69.91	AS FORGED		150 - 152
2	3 300# THRD RF FLG L3TR3	86	H8106	19	51679	74465	31.04	65.48	AS FORGED		152 - 154
3	2 300# BLRF FLGS L3BR2	75	H8205	6	50883	80572	32.32	68.83	AS FORGED		150 - 152
4	3 300# SORF FLGS L3SR3	223	H8317	19	51575	82578	32.48	67.64	AS FORGED		154 - 156
5	3 300# SORF FLGS L3SR3	102	H8207	20	50883	78186	34.58	68.00	AS FORGED		150 - 152
6	3 300# BLRF FLGS L3BR3	31	H8315	19	51258	78952	32.24	67.20	AS FORGED		154 - 156
7	3 300# BLRF FLGS L3BR3	13	H8179	20	50622	79971	31.90	68.95	AS FORGED		152 - 154
8	3 300# BLRF FLGS L3BR3	31	H8158	19	51737	83221	32.98	70.55	AS FORGED		152 - 154

CHEMICAL REQUIREMENTS

Sr. No.	Heat No.	SPECIFIED ELEMENTS												
		SPECIFIED ELEMENTS						UNSPECIFIED ELEMENTS						
		C.E. 0.47% Max	C 0.35 Max	Mn 0.60-1.25	P 0.035 Max.	S 0.04 Max.	Si .10 -0.35 Max.	Cu 0.40 Max.	Ni 0.40 Max	Cr 0.30 Max.	Mo 0.12 Max.	V 0.08 Max.	Pb 0.010 Max.	Al 0.020 Min.
1	H7817	0.42	0.21	1.23	0.020	0.007	0.23	0.004	0.002	0.027	0.002	0.001	0.001	0.027
2	H8106	0.41	0.20	1.22	0.019	0.007	0.22	0.004	0.004	0.013	0.002	0.001	0.001	0.029
3	H8205	0.39	0.20	1.11	0.021	0.014	0.24	0.003	0.002	0.009	0.002	0.003	0.001	0.045
4	H8317	0.41	0.20	1.22	0.021	0.007	0.22	0.004	0.011	0.015	0.003	0.003	0.001	0.021
5	H8207	0.38	0.20	0.90	0.033	0.011	0.23	0.033	0.028	0.115	0.006	0.004	0.001	0.022
6	H8315	0.40	0.19	1.22	0.018	0.008	0.22	0.004	0.011	0.022	0.005	0.003	0.001	0.030
7	H8179	0.38	0.20	0.90	0.028	0.009	0.25	0.054	0.021	0.101	0.005	0.003	0.001	0.022
8	H8158	0.42	0.20	1.23	0.022	0.005	0.24	0.004	0.014	0.019	0.002	0.001	0.001	0.035

Certificate that the materials described above are in accordance with the order and specifications.
Material in accordance with NACE MRO 175-2015/ISO-15156 and NACE MRO 103-2015

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

The Material is produced with Fine Grain Practice.

Note:- We hereby confirm that our QA system comply with requirements of Annex I, Clause 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 Valid upto 31-03-2023. ISO 9001:2015 certificate No. is 159822-2014-AQ-IND-RvA
Valid upto 22/07/2023. Products also conform to requirements of ASTM A105/ASME SA105


AJAY KUMAR BHARTI (METALLURGIST)



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

MATERIAL / MILL TEST CERTIFICATE EN 10204 : 2004 - 3.1



CERTIFICATE NO. 21932 DATE 15/05/2023

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NAME OF BUYER
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P.O NO. PO52223 DT. 28/02/2023

INVOICE NO. EXP/23-2073 DT. 10/05/2023

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
9	4 300# BLRF FLGS L3BR4	96	H8317	19	51575	82578	32.48	67.64	AS FORGED		154 - 156
10	4 300# BLRF FLGS L3BR4	29	H8176	19	51762	77424	32.08	67.20	AS FORGED		152 - 154
11	3/4 300# SORF FLGS L3SR.75	100	H8256	6	50913	80262	32.22	69.49	AS FORGED		152 - 154
12	2 1/2 300# BLRF FLGS L3BR2.5	25	H8315	19	51258	78952	32.24	67.20	AS FORGED		154 - 156
13	2 1/2 150# WNRF STD FLGS L1WRS2.5	500	H8319	20	51154	78062	31.16	69.03	AS FORGED		152 - 154
14	2 1/2 150# WNRF XH FLGS L1WRX2.5	50	H8203	20	50665	78907	33.82	69.63	AS FORGED		150 - 152
15	1 300# THRD RF FLG L3TR1	2	H7964	20	49010	81108	33.98	69.39	AS FORGED		152 - 154
16	1 300# THRD RF FLG L3TR1	3	H8003	6	51442	81611	32.72	67.75	AS FORGED		152 - 154

CHEMICAL REQUIREMENTS

Sr. No.	Heat No.	SPECIFIED ELEMENTS													UNSPECIFIED ELEMENTS				
		C.E.	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Pb	Al	0.010 Max.	0.001	0.001	0.001	0.021
		0.47% Max	0.35 Max	0.60-1.25	0.035 Max.	0.04 Max.	.10 -0.35 Max.	0.40 Max.	0.40 Max	0.30 Max.	0.12 Max.	0.08 Max.	0.010 Max.	0.020 Min.					
9	H8317	0.41	0.20	1.22	0.021	0.007	0.22	0.004	0.011	0.015	0.003	0.003	0.001	0.021					
10	H8176	0.41	0.20	1.23	0.020	0.006	0.23	0.004	0.002	0.019	0.001	0.001	0.001	0.031					
11	H8256	0.38	0.20	1.10	0.014	0.014	0.24	0.003	0.002	0.008	0.002	0.003	0.001	0.028					
12	H8315	0.40	0.19	1.22	0.018	0.008	0.22	0.004	0.011	0.022	0.005	0.003	0.001	0.030					
13	H8319	0.37	0.19	0.92	0.026	0.019	0.23	0.055	0.022	0.087	0.014	0.004	0.001	0.027					
14	H8203	0.38	0.20	0.90	0.028	0.010	0.26	0.020	0.018	0.102	0.004	0.005	0.001	0.022					
15	H7964	0.38	0.20	0.88	0.033	0.011	0.26	0.036	0.021	0.102	0.010	0.002	0.001	0.021					
16	H8003	0.40	0.21	1.14	0.023	0.013	0.25	0.004	0.003	0.011	0.003	0.001	0.001	0.039					

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For R.N. GUPTA & COMPANY LTD. Page No : 2

(Signature)

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P.O NO. PO52223 DT. 28/02/2023

INVOICE NO. EXP/23-2073 DT. 10/05/2023

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	1 300# THRD RF FLG L3TR1	5	H8234	6	51038	77657	34.16	69.67	AS FORGED		152 - 154
18	1 300# THRD RF FLG L3TR1	28	H8171	6	51627	82798	32.36	65.83	AS FORGED		150 - 152
19	1 300# THRD RF FLG L3TR1	12	H8118	6	51687	75778	33.90	69.48	AS FORGED		152 - 154
20	4 150# WNRF STD FLGS L1WRS4	235	H8316	19	51492	80548	32.58	65.58	AS FORGED		152 - 154
21	5 150# WNRF STD FLGS L1WRS5	39	H8176	19	51762	77424	32.08	67.20	AS FORGED		152 - 154
22	5 150# WNRF STD FLGS L1WRS5	120	H8173	19	51605	79042	32.92	68.91	AS FORGED		152 - 154
23	5 150# WNRF STD FLGS L1WRS5	841	H8317	19	51575	82578	32.48	67.64	AS FORGED		154 - 156
24	5 150# WNFF STD FLGS L1WFS5	75	H8317	19	51575	82578	32.48	67.64	AS FORGED		154 - 156

CHEMICAL REQUIREMENTS

Sr. No.	Heat No.	SPECIFIED ELEMENTS												
		SPECIFIED ELEMENTS						UNSPECIFIED ELEMENTS						
		C.E. 0.47% Max	C 0.35 Max	Mn 0.60-1.25	P 0.035 Max.	S 0.04 Max.	Si .10 -0.35 Max.	Cu 0.40 Max.	Ni 0.40 Max	Cr 0.30 Max.	Mo 0.12 Max.	V 0.08 Max.	Pb 0.010 Max.	Al 0.020 Min.
17	H8234	0.39	0.20	1.12	0.021	0.008	0.22	0.004	0.004	0.009	0.002	0.003	0.001	0.045
18	H8171	0.41	0.20	1.15	0.019	0.005	0.21	0.003	0.023	0.077	0.006	0.002	0.001	0.035
19	H8118	0.38	0.21	1.04	0.022	0.009	0.22	0.004	0.003	0.011	0.002	0.002	0.001	0.030
20	H8316	0.41	0.20	1.22	0.020	0.007	0.22	0.004	0.010	0.010	0.003	0.003	0.001	0.025
21	H8176	0.41	0.20	1.23	0.020	0.006	0.23	0.004	0.002	0.019	0.001	0.001	0.001	0.031
22	H8173	0.41	0.21	1.22	0.020	0.004	0.23	0.004	0.002	0.018	0.001	0.001	0.001	0.029
23	H8317	0.41	0.20	1.22	0.021	0.007	0.22	0.004	0.011	0.015	0.003	0.003	0.001	0.021
24	H8317	0.41	0.20	1.22	0.021	0.007	0.22	0.004	0.011	0.015	0.003	0.003	0.001	0.021

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25	H8317	0.41	0.20	1.22	0.021	0.007	0.22	0.004	0.011	0.015	0.003	0.003	0.001	0.021					

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