

MILL TEST CERTIFICATE

EN 10204/3.1 (2004)

BUYER	SPEC. FOR RAW MATERIAL	SPEC. FOR INSPECTION	ORDER No.	ORDER DATE	CERTIFICATE No.
	MADE FROM SEAMLESS PIPE ASTM A106 Gr. B, ASTM A284 Gr. WPB	ASTM A106 Gr. WPB-210 ASME SA-234 Gr. WPB-2010	4702	5/11/2018	C-4702
	GOODS DESCRIPTION	ASME B16.9-2007 / ANSI B16.9	INVOICE	INVOICE DATE	DATE
	FITTINGS CARBON STEEL ASME B16.9	DIN 50049 3.1B / EN 10204 3.1	4702-1	7/17/2018	7/17/2018

No.	DESCRIPTION	SIZE		QTY	HEAT No.	CHEMICAL COMPOSITION %										PHYSICAL PROPERTIES				SURFACE
						C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	T.S	Y.S	EL	HB	
						≤0.30	≤0.10	0.02-1.00	≤0.05	≤0.058	≤0.40	≤0.40	≤0.15	≤0.40	≤0.08	415-655	≥240	≥22	≤197	
1	45° LR ELBOW	3/4"	STD / SCH40	60	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
2	45° LR ELBOW	1"	STD / SCH40	100	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
3	45° LR ELBOW	1-1/4"	STD / SCH40	30	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
4	45° LR ELBOW	1-1/2"	STD / SCH40	200	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
5	45° LR ELBOW	2"	STD / SCH40	150	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
6	45° LR ELBOW	2-1/2"	STD / SCH40	35	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
7	45° LR ELBOW	3"	STD / SCH40	100	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
8	45° LR ELBOW	4"	STD / SCH40	150	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
9	45° LR ELBOW	6"	STD / SCH40	75	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
10	45° LR ELBOW	8"	STD / SCH40	50	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
11	45° LR ELBOW	10"	STD / SCH40	20	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
12	45° LR ELBOW	12"	STD	20	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
13	45° LR ELBOW	14"	STD / SCH30	5	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
14	45° LR ELBOW	16"	STD / SCH30	3	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
15	90° LR ELBOW	1/2"	STD / SCH40	100	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
16	90° LR ELBOW	3/4"	STD / SCH40	100	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
17	90° LR ELBOW	1"	STD / SCH40	350	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
18	90° LR ELBOW	1-1/4"	STD / SCH40	350	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
19	90° LR ELBOW	1-1/2"	STD / SCH40	500	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
20	90° LR ELBOW	2"	STD / SCH40	1250	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
21	90° LR ELBOW	2-1/2"	STD / SCH40	75	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
22	90° LR ELBOW	3"	STD / SCH40	1150	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
23	90° LR ELBOW	3-1/2"	STD / SCH40	25	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
24	90° LR ELBOW	4"	STD / SCH40	1150	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
25	90° LR ELBOW	5"	STD / SCH40	25	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
26	90° LR ELBOW	6"	STD / SCH40	950	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
27	90° LR ELBOW	8"	STD / SCH40	300	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
28	90° LR ELBOW	10"	STD / SCH40	150	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
29	90° LR ELBOW	12"	STD	75	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
30	90° LR ELBOW	14"	STD / SCH30	20	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
31	90° LR ELBOW	16"	STD / SCH30	10	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
32	90° LR ELBOW	1/2"	XS / SCH80	50	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
33	90° LR ELBOW	1"	XS / SCH80	50	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
34	90° LR ELBOW	1-1/2"	XS / SCH80	30	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
35	90° LR ELBOW	2"	XS / SCH80	100	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
36	90° LR ELBOW	3"	XS / SCH80	100	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
37	90° LR ELBOW	4"	XS / SCH80	100	3081	0.26	0.19	0.5	0.003	0.033	0.2	0.014	0.01	0.036	0.017	485	354	35	141	GOOD




GORCHIT MANUFACTURING SDN BHD

MILL TEST CERTIFICATE

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BUYER	SPEC. FOR RAW MATERIAL MADE FROM SEAMLESS PIPE ASTM A106 Gr. B, ASTM A234 Gr. WPB	SPEC. FOR INSPECTION ASTM A106 Gr. WPB-210 ASME SA-234 Gr. WPB-2010	ORDER No. 4702	ORDER DATE 5/11/2018	CERTIFICATE No. C-4702
	GOODS DESCRIPTION FITTINGS CARBON STEEL ASME B16.9	ASME B16.9-2007 / ANSI B16.9 DIN 50049 3.1B/ EN 10204 3.1	INVOICE 4702 1	INVOICE DATE 7/17/2018	DATE 7/17/2018

No.	DESCRIPTION	SIZE		QTY	HEAT No.	CHEMICAL COMPOSITION %										PHYSICAL PROPERTIES				SURFACE
						C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	T.S	Y.S	EL	HB	
						≤ 0.30	≤ 0.10	0.29-1.00	≤ 0.05	≤ 0.058	≤ 0.40	≤ 0.40	≤ 0.15	≤ 0.40	≤ 0.08	415-655	≥ 240	≥ 22	≤ 197	
112	CONCENTRIC	12" - 6"	STD	5	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
113	CONCENTRIC	12" - 8"	STD	20	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
114	CONCENTRIC	14" - 10"	STD	3	5000	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
115	CONCENTRIC	14" - 12"	STD	5	5006	0.18	0.28	0.61	0.003	0.016	0.24	0.019	0.024	0.021	0.019	491	371	29	178	GOOD
116	CONCENTRIC	1" A 1/2"	XS / SCH80	25	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
117	CONCENTRIC	1-1/4" A 1"	XS / SCH80	5	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
118	CONCENTRIC	1-1/2" A 1"	XS / SCH80	5	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
119	CONCENTRIC	1-1/2" A 1-1/4"	XS / SCH80	5	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
120	CONCENTRIC	2" A 1"	XS / SCH80	5	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
121	CONCENTRIC	2" - 1-1/2"	XS / SCH80	5	4651	0.21	0.26	0.52	0.01	0.021	0.19	0.26	0.09	0.11	0.04	538	398	29	159	GOOD
122	CONCENTRIC	4" - 3"	XS / SCH80	10	3081	0.26	0.19	0.5	0.003	0.033	0.2	0.014	0.01	0.036	0.017	485	354	35	141	GOOD
123	CONCENTRIC	6" - 4"	XS / SCH80	2	3081	0.26	0.19	0.5	0.003	0.033	0.2	0.014	0.01	0.036	0.017	485	354	35	141	GOOD
124	CONCENTRIC	8" - 6"	XS / SCH80	3	3081	0.26	0.19	0.5	0.003	0.033	0.2	0.014	0.01	0.036	0.017	485	354	35	141	GOOD
125	ECCENTRIC	1" - 3/4"	STD / SCH40	10	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
126	ECCENTRIC	1-1/4" - 1"	STD / SCH40	10	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
127	ECCENTRIC	1-1/2" - 1"	STD / SCH40	10	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
128	ECCENTRIC	2" - 1"	STD / SCH40	5	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
129	ECCENTRIC	2-1/2" - 2"	STD / SCH40	5	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
130	ECCENTRIC	3" - 2"	STD / SCH40	8	4651	0.19	0.26	0.54	0.003	0.001	0.02	0.015	0.014	0.034	0.017	482	364	33	165	GOOD
131	ECCENTRIC	4" - 2"	STD / SCH40	5	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
132	ECCENTRIC	4" - 3"	STD / SCH40	15	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
133	ECCENTRIC	6" - 3"	STD / SCH40	5	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
134	ECCENTRIC	6" - 4"	STD / SCH40	50	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
135	ECCENTRIC	8" - 6"	STD / SCH40	10	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD
136	ECCENTRIC	10" - 8"	STD / SCH40	25	3081	0.21	0.27	0.52	0.002	0.003	0.012	0.011	0.02	0.04	0.021	465	325	34	162	GOOD

We hereby certify that the materials described herein have been manufactured, inspected and tested in accordance with the customer's specification(s), and that they satisfy the requirements.	CE=C+Mn/6 (Cr+Mo+V)/5+(Ni+Cu)/15 THE QUALITY MANAGEMENT SYSTEM OF ISO 9001:2008 HAS BEEN APPROVED BY LRQA AND PED97/23/EC, ANNEX I SEC. 4.3 TUV-NORD 0045	METHOD OF MANUFACTURING HEAT TREATMENT VISUAL INSPECTION MATERIAL CONFORM TO COUNTRY OF ORIGIN	FORMATED @1150° F AND COOLED IN STILL AIR N/A OK, ACCEPTABLE NACE MR0175-2007 AND NACE MR03103-207 MALAYSIA	 QUALITY ASSURMENT GLOBEIT MANUFACTURING SDN QUALITY ASSURANCE INSPECTOR
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