

MILL TEST CERTIFICATE

BUTT-WELDING PIPE FITTINGS

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CANGZHOU HAOGUAN PIPE FITTINGS CO., LTD.

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CERTIFICATE NO.
HGJK21017

CUSTOMER: UNIMECH ENGINEERING (M) SDN.BHD.

MATERIAL STANDARDS: SGP BUTTWELD PIPE FITTINGS JIS 2311

P.O.NO.: ZPO-2103-0030

DIMENSION STANDARD: SGP CARBON STEEL PIPE FITTINGS

MINIMUM STANDARD AS PER ABOVE SPECIFICATIONS				MECHANICAL PROPERTIES													CHEMICAL COMPOSITION(%)									
ITEM	SIZE	DESCRIPTION	QTY	HEAT#	415 Mpa MIN	240 Mpa MIN	30% MIN	197 HB MAX	COLD FORM	HOT FORMED	0.30 max	0.29 To 1.06 max	0.050 max	0.058 max	0.10 min	0.40 max	Cr	Mo	Ni	Cu	V	0.08 max	0.02 max	0.50 max		
					TENSILE	YIELD	ELONGATION	HARDNESS	Y/N	TEMP.C	C	Mn	P	S	Si											
1	8"	SGP ELBOW 45 DEG	100	632	435	275	31				0.18	0.50	0.028	0.029	0.28											
2	10"	SGP ELBOW 45 DEG	80	213	450	280	32				0.19	0.45	0.027	0.029	0.28											
3	3/4"	SGP ELBOW 90 DEG	400	231	455	275	32				0.18	0.48	0.028	0.033	0.26											
4	2.1/2"X1"	SGP CON REDUCER	20	173	455	275	31				0.18	0.46	0.026	0.031	0.26											
5	2.1/2"X1.1/2"	SGP CON REDUCER	50	173	455	275	31				0.18	0.46	0.026	0.031	0.26											
6	2.1/2"X2"	SGP CON REDUCER	50	173	455	275	31				0.18	0.46	0.026	0.031	0.26											
7	4"X3"	SGP CON REDUCER	100	369	445	275	31				0.18	0.50	0.028	0.029	0.28											
8	5"X3"	SGP CON REDUCER	10	132	430	275	31				0.20	0.55	0.031	0.029	0.26											
9	5"X4"	SGP CON REDUCER	120	132	430	275	31				0.20	0.55	0.031	0.029	0.26											
10	6"X3"	SGP CON REDUCER	30	349	435	279	32				0.19	0.46	0.026	0.028	0.27											
11	8"X4"	SGP CON REDUCER	40	632	435	275	31				0.18	0.50	0.028	0.029	0.28											
12	4"X2.1/2"	SGP ECC REDUCER	2	369	445	275	31				0.18	0.50	0.028	0.029	0.28											
13	5"X4"	SGP ECC REDUCER	10	132	430	275	31				0.20	0.55	0.031	0.029	0.26											
14	8"X4"	SGP ECC REDUCER	15	632	435	275	31				0.18	0.50	0.028	0.029	0.28											
15	1/2"	SGP EQUAL TEE	200	302	445	275	31				0.18	0.50	0.032	0.033	0.25											
16	1"	SGP EQUAL TEE	250	527	450	278	33				0.19	0.53	0.028	0.029	0.28											
17	8"	SGP EQUAL TEE	100	632	435	275	31				0.18	0.50	0.028	0.029	0.28											
18	10"	SGP EQUAL TEE	30	213	450	280	32				0.19	0.45	0.027	0.029	0.28											
19	8"X4"	SGP RED TEE	80	632	435	275	31				0.18	0.50	0.028	0.029	0.28											
20	500MM	SGP G.I ELBOW 90 DEG	8	614	450	282	34				0.21	0.52	0.029	0.030	0.29											

We hereby certify that the material described herein has been inspected/tested satisfactorily in accordance with the standards specified above and purchase order requirements.

REMARKS:

1. VISUAL EXAMINATION: GOOD
2. DIMENSIONAL EXAMINATION: GOOD



CANGZHOU HAOGUAN PIPE FITTINGS CO., LTD.

CHIEF ENGINEER

DATE: 28-Apr-21

