



SAMYOUNG FITTING

INSPECTION CERTIFICATE

(EN10204 3.1/ISO 10474 3.1)

63,Nakdongnam-ro 533beon-gil,
Gangseo-gu, Busan
Tel: 82-51-832-0211~2
Fax: 82-51-832-0213

Customer	SERVICE METAL-L	Certificate No.	20200828044	Date	2020-09-28
CIPL/BL#	SYF200909-1234678ADL/BLKRUSLO513	Project Name			
Job No.		Container#	BMOU1462520		
Specification for Material	ASME SA105N NACE-2015ED	Dimension and Visual Inspection	GOOD		

HCN	Description				Qty (pcs)	Heat Treatment	Line No	ITEM CODE
P177	45ELBOW	3000#	SW	3/4"	600	N: 900 (1652F) A.C		3M45S.75
P302	90ELBOW	3000#	SW	2-1/2"	20	N: 900 (1652F) A.C		3M9S02.5
P307	45ELBOW	3000#	SW	3"	116	N: 900 (1652F) A.C		3M45S03.0
P322	90ELBOW	3000#	SW	3/4"	1300	N: 900 (1652F) A.C		3M9S.75
P340	90ELBOW	3000#	NPT	3/4"	45	N: 900 (1652F) A.C		3M9T.75
P353	90ELBOW	3000#	NPT	1-1/2"	96	N: 900 (1652F) A.C		3M9T01.5
P354	CAP	3000#	SW	1-1/4"	120	N: 900 (1652F) A.C		3MGAPS01.25
P355	45ELBOW	3000#	NPT	3/8"	80	N: 900 (1652F) A.C		3M45T.375
P360	90ELBOW	3000#	SW	1-1/2"	1650	N: 900 (1652F) A.C		3M9S01.5
P578	90ELBOW	3000#	SW	2"	1104	N: 900 (1652F) A.C		3M9S02.0

CHEMICAL COMPOSITION(%)

HCN	spec.	C	Mn	P	S	Si	Ni	Cr	Mo	Cu	V	Raw	Raw Maker
	Max	0.35	1.05	0.035	0.040	0.35	0.40	0.30	0.12	0.40	0.080	Heat No	
	Min	-	0.80	-	-	0.10	-	-	-	-	-		
P177	L	0.190	0.930	0.010	0.008	0.200	0.070	0.100	0.020	0.150	0.010	C48805	SeAH
P302	L	0.190	0.930	0.012	0.005	0.190	0.050	0.090	0.010	0.130	0.010	C52340	SeAH
P307	L	0.180	0.930	0.012	0.009	0.200	0.070	0.100	0.010	0.190	0.000	D07226	SeAH
P322	L	0.190	0.930	0.013	0.011	0.190	0.100	0.120	0.020	0.220	0.000	D07225	SeAH
P340	L	0.190	0.920	0.011	0.015	0.200	0.060	0.130	0.020	0.100	0.010	C54611	SeAH
P353	L	0.200	0.910	0.013	0.006	0.210	0.080	0.110	0.020	0.170	0.010	C55232	SeAH
P354	L	0.200	0.900	0.016	0.006	0.190	0.050	0.140	0.020	0.110	0.010	C55669	SeAH
P355	L	0.190	0.940	0.014	0.007	0.180	0.050	0.110	0.010	0.150	0.000	C55671	SeAH
P360	L	0.200	0.920	0.015	0.007	0.230	0.070	0.130	0.020	0.110	0.010	C55667	SeAH
P578	L	0.200	1.070	0.009	0.008	0.180	0.020	0.120	0.010	0.010	0.002	YT20577	SHINKANSAI

MECHANICAL PROPERTIES

HCN	spec.	Y.S	T.S	E.L	Red.	Hardness Test			
		Ksi		(%)	(%)	HB			
		Max	Min	Max	Min	Max	Min		
P177	P	40.6	75.9	34.8	70.6	145	149	<p>Stock 4711425</p> <p>MATCO FW3L9004 3/4IN FORGED STEEL SOCKET WELD 90D ELBOW CL3000</p>	
P302	P	43.2	73.2	28.0	69.0	144	144		
P307	P	43.8	76.1	32.9	64.9	141	140		
P322	P	42.8	78.9	32.1	68.4	141	145		
P340	P	42.8	76.3	34.3	66.8	145	144		
P353	P	48.5	80.3	31.9	68.4	149	145		
P354	P	40.6	79.5	34.9	70.2	146	148		
P355	P	48.0	74.0	38.1	79.2	145	148		
P360	P	43.3	75.5	35.0	70.2	142	143		
P578	P	50.1	76.5	33.3	68.4	145	146		

We hereby certify that the material herein has been made and tested in accordance with the above specification and also with the requirements called for by the above order.

Remark :

- *fine grain practice
- *ORIGIN : KOREA
- *THE FITTING SUPPLIED IDENTIFIED AS ASME B16.11-2016
- *CONFORMS TO NACE : MR0175-15/ISO 15156-15/MR0135-15

Legend:
 HB:Brinell AC:Air Cool
 ST:Solution Treatment OC:Oil Cool
 SR:Stress Relieving WQ:Water Quenched
 HCN:Heat Code No.
 N:Normalized
 T:Tempered L:Ladle
 A:Annealed P:Product
 Q:Quenched
 (G): Hot-Dip Galvanized Coating
 (EG): Electronic Galvanized

SAMYOUNGFITTING CO.,LTD.

S. H. Shin
S.H.SHIN

Reviewed by :
 Witnessed by :

Approved by

Director of Quality Assurance Dept