



SAMYOUNG FITTING

INSPECTION CERTIFICATE

(EN10204 3.1/ISO 10474 3.1)

63,Nakdongnam-ro 533beon-gil,
Gangseo-gu, Busan
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Customer	SERVICE METAL	Certificate No.	20180621015	Date	2018-06-21
P.O No.	P1017387	Project Name			
Job No.					
Specification for Material	ASME SA105N NACE-2015ED	Dimension and Visual Inspection	GOOD		

HCN	Description					Q'ty (pcs)	Heat Treatment	Line No.	ITEM CODE
P668	45ELBOW	3000#	NPT	1-1/4"	15	N: 900 (1652F) A.C		3M45T01.25	
P723	45ELBOW	3000#	NPT	3"	14	N: 900 (1652F) A.C		3M45T03.0	
P008	90ELBOW	3000#	SW	3/4"	1250	N: 900 (1652F) A.C		3M9S.75	
P725	90ELBOW	3000#	SW	2"	336	N: 900 (1652F) A.C		3M9S02.0	
P724	90ELBOW	3000#	SW	3"	10	N: 900 (1652F) A.C		3M9S03.0	
P007	90ELBOW	3000#	SW	4"	18	N: 900 (1652F) A.C		3M9S04	
P577	90ELBOW	3000#	NPT	3/8"	240	N: 900 (1652F) A.C		3M9T.375	
P018	90ELBOW	3000#	NPT	4"	8	N: 900 (1652F) A.C		3M9T04	
P726	CAP	3000#	NPT	1-1/2"	450	N: 900 (1652F) A.C		3MCAPT01.5	
P511	HALF COUPLING	3000#	NPT	1/8"	500	N: 900 (1652F) A.C		3MCPLHT.125	

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	-	0.60	-	-	0.10	-	-	-	-	-		
P018	L	0.180	0.930	0.013	0.004	0.210	0.040	0.140	0.020	0.090	0.000	B38581	SeAH
P008	L	0.190	0.940	0.014	0.009	0.210	0.050	0.110	0.030	0.080	0.000	C41652	SeAH
P511	L	0.200	0.880	0.014	0.003	0.200	0.020	0.090	0.010	0.040	0.003	1E6142	H STEEL
P723	L	0.180	0.920	0.016	0.007	0.220	0.040	0.140	0.010	0.110	0.010	B42124	SeAH
P726	L	0.190	0.940	0.012	0.009	0.220	0.040	0.100	0.020	0.090	0.000	C41648	SeAH
P724	L	0.190	0.940	0.010	0.008	0.210	0.040	0.120	0.020	0.070	0.000	C41650	SeAH
P577	L	0.200	0.950	0.015	0.010	0.180	0.030	0.110	0.010	0.020	0.002	YT20550	SHINKANSAI
P725	L	0.190	0.920	0.016	0.010	0.220	0.050	0.140	0.030	0.080	0.010	C41647	SeAH
P007	L	0.220	0.870	0.011	0.004	0.260	0.050	0.150	0.010	0.110	0.006	A19108	SeAH
P668	L	0.220	0.880	0.013	0.012	0.260	0.050	0.140	0.030	0.080	0.005	C37020	SeAH

MECHANICAL PROPERTIES

HCN	spec.	Y.S	T.S	E.L (%)	Red. (%)	Hardness Test			
		Ksi				HB			
	Max	-	-	-	-	187			
	Min	36.0	70.0	22.0	30.0	-			
P007	P	51.6	79.4	36.2	69.7	149	155		
P018	P	48.5	71.2	37.6	74.2	145	150		
P724	P	48.3	74.1	35.4	67.2	157	153		
P668	P	53.6	81.0	30.1	86.0	149	153		
P726	P	47.1	72.9	35.8	68.0	145	149		
P725	P	45.9	89.2	35.2	67.8	144	153		
P008	P	43.1	70.8	39.2	70.7	140	147		
P577	P	40.9	77.2	33.2	67.0	145	150		
P723	P	46.6	89.7	34.9	79.4	152	155		
P511	P	48.0	76.0	35.8	72.0	147	145		

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 :

- *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

Reviewed by : _____
 Witnessed by : _____

Approved by S. H. Shin

SAMYOUNGFITTING CO.,LTD.

S. H. Shin
S.H.SHIN

Director of Quality Assurance Dept't