

HYUNDAE FITTING CO., LTD.  
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# MATERIAL TEST CERTIFICATE

Date 2019-08-25 Page: 1/1

EN 10204 (ISO 10474) 3.1

Certificate No : MGT-QA-1908-0467  
 Material : A/SA182-F304/304L+NACE  
 Control No :  
 Class Cert. No :  
 Project No :  
 Raw Material No : 171122-FX01PH-0001A1-0001  
 Specification : ASTM A182/ASME SA182-F304/304L+NACE  
 Others : F0500

Heat No.	Spec	Chemical Composition (%) *4																Heat Treatment *1
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu	V	Nb	N	Ti	Al	W	CEQ	
SD29545	Min						8.0	18.00										1050°Cx5.1Hrs SOLUTION-W.C
	Max	0.030	1.00	2.00	0.045	0.030	13.0	20.00					0.100					
Heat (L)		0.021	0.42	1.42	0.032	0.003	8.02	18.30	0.11	0.27			0.03					

Location	Tensile Test							Impact Test		Hardness Test	Bending Test	Remark	Dimension & Visual
	Size of Specimen		Temp °C	Y.S MPa	T.S MPa	E.L %	R.A %	Temperature (°C)	Notch Type				
	Die (mm)	Gage Length (mm)						Min(J)		Avg(J)	Max		
*2	12.5	50.0	RT	205	515	30	50			237			U.T N.A
T	12.5	50.0	RT	341	548	50	72			184,163			P.T N.A

Class	Product	Size	Qty	Po.No.	Line No	FOR No	Customer Requirement
150#	BLRF	3"	25	718062-00	03		MADE WR0175/ISO 15156_2015 NAACE MR0103/ISO 17496-1:2015  ASME SEC. II PART "A"(17ED) ASTM A182/A182M-16a  Country of Origin : Republic of Korea  Design Code : ASME B16.5

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.

Reviewed By: \_\_\_\_\_ Witnessed By: \_\_\_\_\_

Quality Assurance Dept. Manager

\* Notes 1 - N = Normalized, A = Annealed, Q = Quenched, T = Tempered, S.T = Solution Treated, A.C = Air Cooled, W.C = Water Cooled, O.C = Oil Cooled  
 \* Notes 2 - T = Tangential, Tr = Transverse, L = Longitudinal, Z = Through-Thick \* Notes 3 - RT = Room Temperature \* Notes 4 - T.R = Trace

Stock 4725044 01/17/2020  
 SSFLANGE 3IN 150# 304 SS BLIND  
 FLANGE IMPORT