

CERTIFICATE OF MATERIAL

(EN10204 : 2004 3.1)

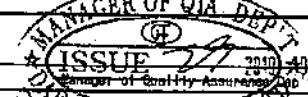
Customer	Project	PO No.: 6000183-00	Heat Treatment #1															
Spec. For Material : A/SA182 F304/304L+NACE (2017ED)	#2 Chemical Composition (%)												DHI190526-45 S.T:1065°C X 0.33 HRS-W.C					
	Spec.	C	Si	Mn	P	S	Ni	Cr	Mo	V	Cu	Nb		Al	Ti	N	Cad	Co
	Min.	0.030	1.00	2.00	0.045	0.030	11.0	18.0								0.10		
Heat No. & Lot No. OUTOKUMPU E180906-9526A	H	0.018	0.30	0.37	0.037	0.001	10.00	18.31										

Raw Certificate No. : 2D1801424


Direction	Specimen		Tension-Test					Hardness (HBW)	Charpy Impact Test (10*10*55mm)			Bending Test	Dimensional Inspection
	Dia. mm	Gage Length mm	Yield Strength MPa	Tensile Strength MPa	Elongation %	Red. of Area %	Individual		Average	Notch Type			
WS	12.5	50.0	205	515	30	50	237	Test Result				GOOD	
L	12.5	50.0	272	549	25	72	162,160	2	3	Ave.	Temp.	Visual Inspection	

No.	Description	Dimension	Lot No./PO No.	Remark
8	B16.5 150# BL RF 3"	50 EA		NACE MR0175/ISO 15166/MR0103/ISO 17845 (2016ED) No repair welding PED 2014/68/EU (Cert No.:CE-PED-KM-DHI-001-17-KOR) ISO 9001:2015 (Cert No.:10BK00880) Welding process : EAF+WD
28	B16.5 150# LJ 3/4"	25 EA		
35	B16.5 150# LJ 3"	50 EA		
48	B16.5 150# SO RF 3/4"	50 EA		
56	B16.5 150# SO RF 3"	50 EA		
77	B16.5 150# SW RF 3/4" S/40S	50 EA		
83	B16.5 150# SW RF 3" S/40S	25 EA		
91	B16.5 150# THREAD RF 3/4"	25 EA		
97	B16.5 150# THREAD RF 3"	50 EA		
115	B16.5 150# WN RF 3" S/10S	100 EA		
116	B16.5 150# WN RF 3" S/40S	50 EA		

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.


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 Manager of Quality Assurance Dept.

Notes : #1 Heat Treatment : N = Normalizing A = Annealing Q = Quenching T = Tempering R = Stress Relieving S = Solution Treatment SA = Solution Annealing
 STA = Stabilized Annealed O = Other QT = Quenching Tempering Z = Stabilization W = Normalizing Tempering
 A.C = Air Cooled W.C = Water Cooled F.C = Furnace Cooled D.C = Oil Cooled R.C = Rapid Air Cooling S.A = Solution Annealing Q & W = Water Quenched
 #2 TR : Trace
 #3 Direction : C-Crosswise L-Longitudinal Tr-Transverse T-Tangential R-Radial U-W-13(Direction Parallel to the Axis of the Vessel)

Stock 4725044 04/21/2021

 SSFLANGE 3IN 150# 304 SS BLIND
 FLANGE IMPORT