



Nautic Steels Limited

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TEST ANALYSIS CERTIFICATE

Date: 28/03/2022 Certificate Reference: 268711
 Customer: PANTECH CORPORATION SDN BHD Order No.: PO/0095887
 Our Job No.: 44592 Cast: J3410582
 Material Spec: ASME SA182 / SA182M-2021 & ASTM A182 / A182M-2020
 Grade: F304/304L

ITEM NO: 1
 PO NO: APO-2204-0092
 DO NO: 206836

Item No. Description Quantity
 35 3" PN16 RF SLIP ON FLANGES DIN2643 350 PIECES

Chemical Composition %

CAST	C %	Si %	Mn %	P %	S %	NI %	Cr %	N %
J3410582	<0.030	<1.00	<2.00	<0.045	<0.030	8.00-11.00	18.00-20.00	<0.10
	0.021	0.43	1.35	0.024	0.002	8.02	18.13	0.078

	Result	Max	Min
Tensile N/mm ²	580.0000	0.0000	615.0000
Yield N/mm ² 0.2% offset method	295.0000	0.0000	205.0000
Elongation %	56.0000	0.0000	30.0000
Reduction in area %	72.0000	0.0000	50.0000

Solution Heat Treatment Done Result
 Yes 1050 DEG C, Water Quenched

TENSILE TEST: TRANSVERSE (d=12.50mm; GL=50mm)
 HARDNESS (HB) RESULTS: 158,160,162
 INTERGRANULAR CORROSION TEST IN ACCORDANCE TO ASTM A262 PRACTICE E PERFORMED ACCEPTABLE
 P.M.I. PERFORMED ACCEPTABLE
 VISUAL & DIMENSIONAL INSPECTION: SATISFACTORY
 CONFORMS TO ASME SEC II PART A, NACE MR0175/MR0103-2015, ASTM A961-2016 & ASTM A370-2018
 MATERIAL IS FREE FROM MERCURY & RADIOACTIVE CONTAMINATION

INSPECTION CERTIFICATE 3.1 BS EN 10204:2004

PANTECH CORPORATION SDN. BHD.
 Certified True Copy
 Woo Hui Nee
 TEST CERTIFICATE DEPARTMENT
 CHECKED & VERIFIED BY
 [Signature]



WE CERTIFY THAT THE COMPONENTS MANUFACTURED CONFORM WITH EC DIRECTIVE PED 2014/68/EU ANNEX 1 SECTION 3 AND SECTION 4.3.
 APPLICABLE WELD PROCEDURES ARE QUALIFIED BY A RECOGNISED THIRD PARTY.
 MATERIAL & WELDING CONSUMABLES ARE FROM A THIRD PARTY ACCREDITED ISO 9000 APPROVED SOURCE IN ACCORDANCE WITH PED ANNEX 1 PARAGRAPH 4.3
 THE MATERIAL DETAILED ON THIS CERTIFICATE COMPLIES WITH THE STATED SPECIFICATION