

INSPECTION CERTIFICATE

(Type 3.1 acc to EN 10204)

Certificate No.	C220106 - 5 / 9	Melting Process :	E.A.F.	Date	2022-01-06
Specification	ASTM A269-13a /A213-21b /ASME SA213-19		V.O.D.	Customer	PAC Stainless
Grade	TP316/316L		Strand Casting	Purchase Order No.	60926H

* Chemical Composition(WT %)															
Manuf No	Heat No	Lot No	Size (Inch, Ft)	Item	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	Ti	N
					0.035	1.00	2.00	0.045	0.015	10.00	16.00	2.00			
211228	N24594	CSEC21120852	OD 3/8" * 0.049" T * 20'	Spec					0.005	10.00	16.00	2.00			
						0.012	0.448	1.006	0.0294	0.0069	12.601	17.255	2.666	0.294	0.0040
				Result(L)	0.016	0.460	1.020	0.0283	0.0062	12.632	17.332	2.693	0.295	0.0040	0.0152
				Result(P)											
Mechanical Properties					Eddy Current Test	Hardness Test (HRB)	Elongation (%)	Tensile Strength (ksi)	Yield Strength (ksi)	* Remarks : - NACE MR0175 / MR0103 - Wall Thickness : AW - Seamless Tube					
Spec										Visual & Dimensions	Flaring Test	Flattening Test	Surface Roughness (µinch)		
Result					Good	78.1	≥ 35	≥75	≥30	-	no cracks	no cracks	Ra ≤ 100	6~24	