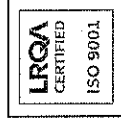




# MILL TEST CERTIFICATE

PANTECH STAINLESS & ALLOY INDUSTRIES SDN. BHD. (733428W)  
(A MEMBER OF PANTECH GROUP HOLDINGS BERHAD, LISTED ON MAIN MARKET OF BURSA MALAYSIA)

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MATERIAL MANUFACTURER APPROVAL ACCORDING TO  
PED 2014/68/EU, ANNEX 1, PARA 4.3.  
PED CERTIFICATE NO.:  
0343/PED/MUM/1110006/1

Customer : Unimech Engineering (M) Sdn Bhd  
Product : Welded Austenitic Stainless Steel Pipe

Certificate No : PSA3-12246  
Date : 09/06/2022

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

PO No.	Invoice No.	Product Specification	Dimensional & Inspection Specification	Delivery Condition									
APO-2203-0026	L000013036	ASTM A312/A312M - 21 / ASME SA312/SA312M - 21	ASTM A999/A999M - 18/ ASME SA999/SA999M - 21 B 36.19M- 2018 & B36.10M-2018 / ASME SECTION II PART A-2021	Solution Treated, Pickled-Passivated, Plain Ends Square Cut									
Heat No.	Size	Grade	Quantity (Length)	Non Destructive Test	Inter-Granular Corrosion Test	Hydrostatic Test	Dimensional / PMI/ Visual Inspection						
LE043-10	2 Inch Sch 10S x 6M	TP 316/316L	30	Eddy Current PASSED	Flattening PASSED	Pressure / Hold 2500 PSI, 5s PASSED	GOOD						
Chemical Composition (%)													
Specification Max Min Heat No. LE043-10	C	Si	Mn	P	S	Cr	Ni	Mo	Pb	Tensile Test <sup>1</sup>		Hardness, HRB	Remarks
	0.035	1.00	2.00	0.045	0.030	18.00	14.00	3.00	-	YS (ksi / MPa)	TS		
	-	-	-	-	-	16.00	10.00	2.00	-	205	515	35	
	0.014	0.63	1.04	0.029	0.001	16.80	10.07	2.07	< 0.01	314	568	57	

WE HEREBY CERTIFY THAT THE PRODUCT DESCRIBED HEREIN HAS BEEN MANUFACTURED, SAMPLED, TESTED & INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION & PURCHASE ORDER.

AND WAS FOUND SATISFIED TO THE REQUIREMENTS. MATERIAL IS FREE FROM MERCURY & RADIOACTIVE CONTAMINATION.

TENSILE REQUIREMENT, CONFORMS TO ASTM A370 - 12a STANDARD. SPECIMEN GAUGE WIDTH 1.92MM. FOR 1" ABOVE, 1" INCLUDE AND BELOW DIRECT TEST FROM PIPE. LONGITUDINAL DIRECTION. GAUGE LENGTH 2" (50mm)

NOTE: MADE IN MALAYSIA STEEL MAKING PROCESS: AOD / VOD

WELDED BY ELECTRIC FUSION WELDING PROCESS WITH NO FILLER METAL.

INTERGRANULAR CORROSION TEST ACCORDING TO ASTM A262-10 PRACTICE E

HARDNESS ACCORDING TO NACE-MR0175-2015 / ISO 15156-2015 & NACE-MR0105-2015

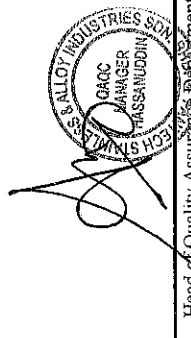
HEAT TREATMENT: SOLUTION TREATED AT MINIMUM 1050°C, RAPIDLY COOLED WITH WATER

CHEMICAL COMPOSITION CAPTURED FROM RAW MATERIAL'S HEAT ANALYSIS

\*1. YS: YIELD STRENGTH TS: TENSILE STRENGTH E: ELONGATION

\*2. NH: Not Hydrostatically Tested

EDDY CURRENT ACCORDING TO ASTM E426-98 (Reapproved 2003)<sup>1</sup> REQUIREMENTS (REFERENCE TO ASTM A999/A999M-12 REQUIREMENTS; DISCONTINUITY ACC. TO CLAUSE 22.3.3.4. PROCEDURE ACC. TO CLAUSE 22.3.9)



Head of Quality Assurance Department