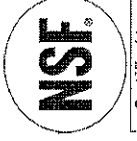


# MILL TEST CERTIFICATE

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

PTD 20434, JALAN PLATINUM UTAMA,  
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JOHOR DARUL TAKZIM, MALAYSIA  
Tel: +607-2518888 Fax: +607-2519999 Website: www.pantechgroup.com  
http://www.pantechgroup.com



Approval No.:  
ISO9001-0047465

MATERIAL MANUFACTURER APPROVAL ACCORDING TO  
PED 2024/68/EU, ANNEX 1, PARA 4.3.  
PED CERTIFICATE NO.:  
0943/PED/MUM/1110006/1



Suruhanjaya Perkhidmatan Air, Negara  
NO. SIIL PENDAFTARAN : SPAN/BPI/300-10/553/A/W-1

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

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

Certificate No : PSA3-12255  
Date : 16/06/2022

PO No.	Invoice No.	Product Specification		Dimensional & Inspection Specification						Delivery Condition					
		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	Quantity (Length)	Grade	Non Destructive Test			Inter-Granular Corrosion Test		Hydrostatic Test		Dimensional / PMI/ Visual Inspection		
Heat No.	Size	Si	C	Mn	P	S	Cr	Ni	Mo	Pb	Tensile Test <sup>1</sup>		Hardness, HRB	Remarks	
											Yield Strength	TS			Pressure / Hold
LG154-10	3/4 inch Sch 40S x 6M	0.47	0.020	1.39	0.033	0.002	16.77	10.03	2.02	< 0.01	205	515	35	90	
KG381-10	1 1/2 inch Sch 10S x 6M	0.46	0.025	1.34	0.027	0.001	16.72	10.05	2.02	< 0.01	389	629	50	84	
KG519-10	1 1/2 inch Sch 10S x 6M	0.44	0.023	1.34	0.030	0.002	16.74	10.05	2.04	< 0.01	480	665	45	85	
LE043-10	1 1/2 inch Sch 10S x 6M	0.63	0.014	1.04	0.029	0.001	16.80	10.07	2.07	< 0.01	343	581	57	77	

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 19.3MM 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-MR0103-2015

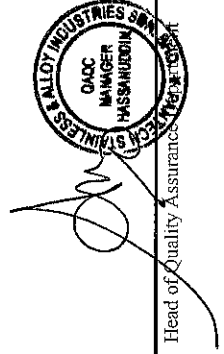
HEAT TREATMENT: SOLUTION TREATED AT MINIMUM 1050°C, RAPIDLY COOLED WITH WATER

CHEMICAL COMPOSITION CAPTURED FROM RAW MATERIAL'S HEAT ANALYSIS

\*1: Y.S: YIELD STRENGTH TS: TENSILE STRENGTH E: ELONGATION

\*2: NH: Not Hydrostatically Tested

EDDY CURRENT ACCORDING TO ASTM E456-98 (Reapproved 2003),<sup>4</sup> REQUIREMENTS (REFERENCE TO ASTM A999/A999M-12 REQUIREMENTS, DISCONTINUITY ACC. TO CLAUSE 22.1.8.4, PROCEDURE ACC. TO CLAUSE 22.1.9)



Head of Quality Assurance