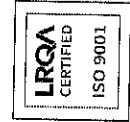




MILL TEST CERTIFICATE

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

PTD 264334, JALAN PLATINUM UTAMA,
KAWASAN PERINDUSTRIAN PASIR GUDANG, ZON IZB, 81700 PASIR GUDANG
JOHOR DARUL TAKZIM, MALAYSIA
Tel: +607-2518888 Fax: +607-2519999 Website: www.pantechgroup.com
http://www.pantech-group.com



Certified to NSF/ANSI 61
Approval No.: ISO9001-0047465



MATERIAL MANUFACTURER APPROVAL ACCORDING TO PED 2034/68/EU, ANNEX 1, PARA 4.3.
PED CERTIFICATE NO.: 0943/PED/MUM/J/110006/1

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

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

Certificate No : PSA2-27647
Date : 15/03/2022

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	Non Destructive Test		Inter-Granular Corrosion Test		Hydrostatic Test		Tensile Test ^{*1}		Dimensional / PMI / Visual Inspection																																																																													
Heat No.	Size	Grade	Quantity (Length)	Eddy Current	Flattening	YS (ksi / MPa)	TS (ksi / MPa)	E (%)	Hardness, HRB	Remarks																																																																																
LG015-10	1 inch Sch 40S x 6M	TP 304/304L	455	PASSED	PASSED	205	515	35	90																																																																																	
KG479-10	6 inch Sch 10S x 6M	TP 304/304L	5	PASSED	PASSED	368	655	57	83																																																																																	
LG015-10	6 inch Sch 10S x 6M	TP 304/304L	40	PASSED	PASSED	360	645	51	84																																																																																	
						352	662	50	81																																																																																	
<p>Specification</p> <table border="1"> <thead> <tr> <th colspan="13">Chemical Composition (%)</th> </tr> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Cr</th> <th>Ni</th> <th>Pb</th> <th colspan="5"></th> </tr> </thead> <tbody> <tr> <td>0.035</td> <td>1.00</td> <td>2.00</td> <td>0.045</td> <td>0.030</td> <td>20.00</td> <td>11.00</td> <td>-</td> <td colspan="5"></td> </tr> <tr> <td>0.020</td> <td>0.36</td> <td>1.15</td> <td>0.026</td> <td>0.002</td> <td>18.00</td> <td>8.00</td> <td>-</td> <td colspan="5"></td> </tr> <tr> <td>0.029</td> <td>0.36</td> <td>1.39</td> <td>0.030</td> <td>0.002</td> <td>18.15</td> <td>8.07</td> <td>< 0.01</td> <td colspan="5"></td> </tr> <tr> <td>0.020</td> <td>0.36</td> <td>1.15</td> <td>0.026</td> <td>0.002</td> <td>18.15</td> <td>8.07</td> <td>< 0.01</td> <td colspan="5"></td> </tr> </tbody> </table>													Chemical Composition (%)													C	Si	Mn	P	S	Cr	Ni	Pb						0.035	1.00	2.00	0.045	0.030	20.00	11.00	-						0.020	0.36	1.15	0.026	0.002	18.00	8.00	-						0.029	0.36	1.39	0.030	0.002	18.15	8.07	< 0.01						0.020	0.36	1.15	0.026	0.002	18.15	8.07	< 0.01					
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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 19.2MM 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 WITH PROCESS WITH NO FILLER METAL INTERGRANULAR CORROSION TEST ACCORDING TO ASTM A262-10 PRACTICE F

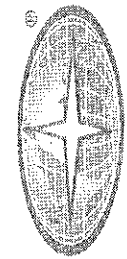
HARDNESS ACCORDING TO NACE-MR0175-2015 / ISO 15156-2015 & NACE-MR0105-2015

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: NIT, Not Hydrostatically Tested REQUIREMENTS (REFERENCE TO ASTM A999/A999M-12 REQUIREMENTS, DISCONTINUITY ACC. TO CLAUSE 32.3.8.4, PROCEDURE ACC. TO CLAUSE 22.3.9)

Signature and Stamp of Head of Quality Assurance Department



MILL TEST CERTIFICATE

PANTECH STAINLESS & ALLOY INDUSTRIES SDN. BHD. (733428W)
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Cert. No.: PC004871



NO. SIJIL PENDAFTARAN : SPAN/BR/300-10/553/A/W-1

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

Approval No.:
 ISO9001-0047465



Certified to
 NSF/ANSI 61

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 : PSA2-27648
 Date : 15/03/2022

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	Non Destructive Test		Inter-Granular Corrosion Test		Hydrostatic Test		Tensile Test ¹		Hardness, HRB		Remarks	
Heat No.	Size	Grade	Quantity (length)	Eddy Current	Flattening	YS (ksi / MPa)	TS (%)	Pressure / Hold	Result	Dimensional / PMI/ Visual Inspection					
KG374-10	3/4 inch Sch 10S x 6M	TP 304/304L	101	PASSED	PASSED	205	515	2500 PSI, 5s	PASSED	GOOD					
KS175-10	3/4 inch Sch 10S x 6M	TP 304/304L	127	PASSED	PASSED	403	697	2500 PSI, 5s	PASSED	GOOD					
KS179-10	3/4 inch Sch 10S x 6M	TP 304/304L	153	PASSED	PASSED	367	677	2500 PSI, 5s	PASSED	GOOD					
KG446-10	3/4 inch Sch 40S x 6M	TP 304/304L	120	PASSED	PASSED	340	640	2500 PSI, 5s	PASSED	GOOD					
KG485-10	1.0 inch Sch 10S x 6M	TP 304/304L	6	PASSED	PASSED	378	672	NH	PASSED	GOOD					
Specification		Chemical Composition (%)													
Max	C	Mn	P	S	Cr	Ni	Pb								
Min	0.035	2.00	0.045	0.030	20.00	11.00	-								
Heat No.	-	-	-	-	18.00	8.00	-								
KG374-10	0.027	1.38	0.037	0.001	18.25	8.02	< 0.01								
KS175-10	0.017	1.03	0.028	0.001	18.10	8.04	< 0.01								
KS179-10	0.010	0.48	0.027	0.002	18.08	8.00	< 0.01								
KG446-10	0.021	1.13	0.027	0.002	18.22	8.03	< 0.01								
KG485-10	0.017	0.35	0.035	0.002	18.15	8.02	< 0.01								

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 19.2MM FOR T ABOVE, 1" INCLUDE AND BELOW DIRECT TUST FROM PIPE LONGITUDINAL DIRECTION. GAUGE LENGTH 1.2" (30mm)

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

WELDED BY ELECTRIC FUSION WELDING WITH PROCESS WITH NO FILLER METAL

INTERGRANULAR CORROSION TEST ACCORDING TO ASTM A362-10 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. NI: Not Hydrostatically Tested

EDDY CURRENT ACCORDING TO ASTM E2626-98 (Reapproved 2005) *1 REQUIREMENTS (REFERENCE): TO ASTM A999/A999M-12 REQUIREMENTS, DISCONTINUITY ACC. TO CLAUSE 22.3.8.4. PROCEDUR: ACC. TO CLAUSE 22.3.9)

[Signature]
 Head of Quality Assurance Department