



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

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

Customer: Statewell On Behalf Of Silbo Industries,INC
Product: Welded Austenitic Stainless Steel Fitting

Certificate No: PSA2-FT-30948
Date: 17 Nov 2021

PO No.	Invoice No.	Product Specification	Dimension & Inspection Specification				Delivery Condition						
SW210607 (71211)	E000004344	ASTM A403/A403M - 20 / ASME SA 403/SA403M - 21	ASME B16.9 - 18 / ASTM A960/A960M - 20 / ASME SA 960/SA960M - 21 / ASME SECTION II PART A-2021				Solution Treated, Pickled-Passivated						
Heat No.	Product & Size			Quantity (pcs)	Material Grade	Visual / Dimension / PMI Examination	Remarks						
JSA426-01-182LR	3"	SCH 10s	90° LR ELBOW	15	WP304/304L-W	PASSED	JSA426-01182						
KG021-1	3"	SCH 10s	90° LR ELBOW	1	WP304/304L-W	PASSED	KG021-1						
KF058-1	3"	SCH 40s	90° LR ELBOW	127	WP304/304L-W	PASSED	KF058-1						
KF059-1	3"	SCH 40s	90° LR ELBOW	53	WP304/304L-W	PASSED	KF059-1						
KG105-1	4"	SCH 10s	90° LR ELBOW	77	WP304/304L-W	PASSED	KG105-1						
KG107-1	4"	SCH 10s	90° LR ELBOW	19	WP304/304L-W	PASSED	KG107-1						
KG070-1	4"	SCH 40s	90° LR ELBOW	203	WP304/304L-W	PASSED	KG070-1						
IYA097-01-112LR	5"	SCH 10s	90° LR ELBOW	100	WP304/304L-W	PASSED	IYA097-01112						
KG026-1	4"	SCH 10s	90° SR ELBOW	5	WP304/304L-W	PASSED	KG026-1						
IYA097-01-112SR	5"	SCH 10s	90° SR ELBOW	20	WP304/304L-W	PASSED	IYA097-01112						
Specification	Chemical Composition (%)								Tensile Test ¹			Hardness (HRB)	Inter-granular corrosion test
	C	Si	Mn	P	S	Cr	Ni	Pb	YS (KSI / MPa)	TS (KSI / MPa)	E (%)		
	Max	0.030	1.00	2.00	0.045	0.030	20.00	11.00	-	-	-	-	
Min	-	-	-	-	-	18.00	8.00	-	205	515	28	-	
Heat No.	-	-	-	-	-	18.00	8.00	-	205	515	28	-	
JSA426-01-182LR	0.012	0.39	1.03	0.031	0.002	18.04	8.00	< 0.01	339	646	48	79	PASSED
KG021-1	0.020	0.44	1.16	0.028	0.002	18.18	8.02	< 0.01	347	654	47	78	PASSED
KF058-1	0.020	0.41	0.86	0.031	0.003	18.13	8.06	< 0.01	340	653	51	79	PASSED
KF059-1	0.017	0.40	0.86	0.032	0.004	18.14	8.04	< 0.01	338	635	65	79	PASSED
KG105-1	0.028	0.41	1.15	0.034	0.001	18.12	8.03	< 0.01	386	700	62	78	PASSED
KG107-1	0.025	0.40	1.12	0.032	0.001	18.10	8.03	< 0.01	368	664	57	80	PASSED
KG070-1	0.025	0.40	1.17	0.024	0.002	18.07	8.01	< 0.01	339	646	54	77	PASSED
IYA097-01-112LR	0.018	0.38	1.58	0.031	0.005	18.10	8.00	< 0.01	337	641	55	76	PASSED
KG026-1	0.021	0.46	1.16	0.028	0.001	18.12	8.02	< 0.01	345	652	53	81	PASSED
IYA097-01-112SR	0.018	0.38	1.58	0.031	0.005	18.10	8.00	< 0.01	337	641	55	76	PASSED

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 3" ABOVE & 3" BELOW DONE SIMULATION TEST FROM PIPE, LONGITUDINAL DIRECTION, GAUGE LENGTH 2" (50mm)

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

PIPE RAW MATERIAL - 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: YS: YIELD STRENGTH TS: TENSILE STRENGTH E: ELONGATION

MATERIAL CONFORMS TO THE SPECIFICATION / STANDARD SHOWN

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