

PANTECH CORPORATION SDN BHD

Co. No.: 19880100964 (176921-P)



A member of Pantech Group Holdings Berhad
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Branches : Klang - Kuantan - Pengerang - Shah Alam - Singapore

DELIVERY ORDER

DO NO. : DO/0208439
Page : 1 of 1
Customer Code : DTU010M
Date : 19-May-2022
Currency : MYR
Terms : 60 days from invoice date
PO No : APO-2204-0168
Our Ref : CO/0186269
Salesman : SB. Lim

Consignee :
 UNIMECH ENGINEERING (M) SDN. BHD.
 WISMA UNIMECH,
 4934, JALAN CHAIN FERRY,
 12100, BUTTERWORTH,
 PENANG, MALAYSIA
 Tel : 07-3557261
 Fax: 04-3325176, 3325491

Attn : FIEKA NATASHA BT ZAINI

DO Seq No	Description	Qty U/M	Unit Wt (KG)
CO/0186269-1	90D ELBOW LR A/SA 403 GR. WP304/304L BW WELDED NACE MR-0175 SCH 10S SIZE 20" (TSS MALAYSIA) Heat No : A1004377;	5.00 PCS	82.00
CO/0186269-2	45D ELBOW LR A/SA 403 GR. WP304/304L BW WELDED NACE MR-0175 SCH 10S SIZE 20" (MAC) Heat No : 43XA110;	4.00 PCS	41.00
Total Qty : 9.00			
Total Wt (KG) : 574.00			

WILY CHAI
DATE RECEIVED:

Customer received in good conditions by:	Transporter's Company	PANTECH CORPORATION SDN BHD
	Driver's Name:	Issued By: FIEKA NATASHA BT ZAINI
	I/C:	Authorized By:
	Lorry No:	Checked By Warehouse:
	Contact No:	Security:

CUSTOMER COPY

Note: Any discrepancies or any disputes whatsoever in this Delivery Order must be formally lodged in writing within seven (7) days of receipt. Please see General Terms & Conditions on reverse side.

TSS PIPES & FITTINGS INDUSTRY SDN. BHD.
 No.5, Lorong JKS Simpang Ampat K, Taman JKS Simpang Empat, 14000 Simpang Ampat
 Penang, Malaysia. Mill Test Certificate acc to EN10204 3.1
 Directive 2014/68/EU Cert. No.: 5R201112.TSSSW02
 (1234978-K)

ITEM NO: 1
 PO NO: APO-2204-068
 DO NO: 208439

Cert. No.: 10137490Q

ISO 9001:2015

20210904 -04

Solution Annealed, pickled and passivated

ASTM A403-20/ASME SA403&ASME B16.9-2018

Heat No. Heat treatment Quenching

1050°C 1050°C RWQ

1915760 1050°C RWQ

PANTECH CORPORATION SDN BHD

TSS20210203

PO No. PO/0087294

STAINLESS STEEL COLD FORMED BUTT WELD FITTINGS

Product Name

90 Degree Elbows Long Radius Concentric Reducers Reducing Tees

SCH10S SCH10S SCH10S

20" 14"x12" 16"x12"

Quantity

15 5 3

Item

4 13 14

Description

Customer / Client

Contract No.

Customer / Client

Contract No.

Customer / Client

Contract No.

Customer / Client

Contract No.

Customer / Client

Contract No.

Customer / Client

Contract No.

Customer / Client

Chemical Composition (%)

Heat No.	C	Mn	P	S	Si	Cr	Ni	Mo
A1004377	0.019	1.58	0.027	0.003	0.42	18.12	8.01	
S693716	0.020	1.44	0.028	0.004	0.47	18.15	8.02	
1915760	0.021	1.56	0.025	0.003	0.34	18.12	8.04	

Mechanical Properties

Heat No.	TS(MPa)	YS Rp0.2%(MPa)	EL(%)	Hardness		NACE MR0175	IC Test	Impact Test	Non-destructive Test	100% PMI	Visual	Dimensional
				HRB	HRB							
A1004377	642	258	57.5	77	75	78	OK	N/A	RT	OK	OK	OK
S693716	682	261	53	79	76	75	OK	N/A	OK	OK	OK	OK
1915760	648	268	64	78	76	75	OK	N/A	OK	OK	OK	OK

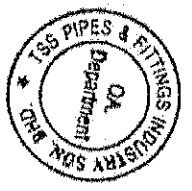
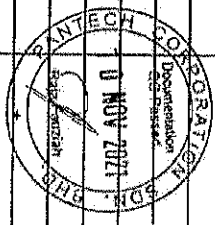
MARKINGS: TSS - SPECIFICATION - CODE - NPS - SCH - GRADE - HEAT NO. - MALAYSIA (CODE for elbows only)

We hereby certify that the products described herein has been manufactured, sampled, tested & inspected in accordance with the requirements of the above specification and purchaser order and was found satisfied to the requirements. Materials free of mercury and radiation, no weld repair as per ASTM A960-2019 Supplementary Requirement S66. Hardness according to NACE MR0175-2015 /ISO 15156-2016/MR 0103-2016, ASME Section II part A-2019, Tensile requirement: Conforms to ASTM A370-17a standard, Specimen gauge width 12.5mm for 3" above & 3" below done simulation test from pipe. Longitudinal direction, gauge length 2" (50mm). Intergranular corrosion test according to ASTM A262-2015 Practise E. Chemical composition captured from raw materials heat analysis. Steel making process: EAF+VOD.

Signed: 

Q.A. Manager

Date: 13-Oct-21



PANTECH CORPORATION SDN BHD
 Certificate True Copy
 YEAP KWAN



MAC Piping Materials Sdn. Bhd.
 Company No : 1250794-W
 Lot 8095, Jalan Sungai Rasau 32,
 Kawasan 16, Sungai Rasau, 41300 Klang,
 Selangor Darul Ehsan, Malaysia
 Tel: +603-3344 9733 Fax: +603-3344 9722
 Website : www.macpiping.com
 Email : enquiry@macpiping.com

07/207/9030/WP/2302/18
 07/207/9030/WP/2302/18
 PED2014/68/EU

TUV SUD Asia Pacific
 ISO 9001 : 2015
 Certificate Registration
 No. : TUV100 13 4226

MILL INSPECTION REPORT

IN ACCORDANCE TO EN 10204 3.1

ITEM NO: 2
 PO NO: APO - 2204-0168
 DO NO: 208439

CERTIFICATE NO : MAC0000116 (1) DATE : 06/01/2022
 INVOICE NO. : INV100127
 CONTRACT NO. : SO-000665/666/703/704
 SHIPPER : MAC PIPING MATERIALS SDN BHD

PURCHASE ORDER N : 0089837/9840/0091129/1142
 CUSTOMER : PANTECH CORPORATION SDN BHD

PRODUCT : STAINLESS STEEL BUTT WELD FITTINGS (WELDED)
 SPECIFICATION : ASTM A403/ASME SA403M-15
 MATERIAL GRADE : WP304/304L-WX (WELDED)

NO.	DESCRIPTION OF GOODS (PRODUCT, SIZE, SCHEDULE, GRADE)	PO No.	QUANTITY (PCS)	WEIGHT (KGS)	HEAT NUMBER	TENSILE TEST			HARD- NESS TEST (HRB)	NON- DESTRUCTIVE TEST (NDT)			CHEMICAL COMPOSITION (WT%)									
						Y.S. N/mm ²	T.S. N/mm ²	EL.% (I)		RT	UT	MT	PT	ET	C	SI	Mn	P	S	Ni	Cr	Mo
1	ELBOW 45 20" SCH 10S 304/L (WX)	0089837	5	181.80	43XA110	277	684	64	84	OK	N/A	N/A	N/A	N/A	2.2	37	150	25	4	809	1820	-
						205	515	28	AVR	187					3.0	100	200	45	30	1200	2000	-

"WE HEREBY CERTIFY THAT THE PRODUCTS 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"

SURFACE INS	DIMENSION INS	CONSTRUCTION M.	WELD PROCESS	PROCEDURE SPEC. NO.
Good	Good	Without filler	ESW	WPS 1812

NOTE:

Y.S = Yield Strength
 T.S = Tensile Strength
 EL = Elongation in 50mm
 (for 4D), min, %
 1kgf = 1,000 psl
 1Mpa = 1N/mm² = 0.145038 KSI
 RT = Dye Penetrant Test

SCH = Schedule
 R.T = Radiography Test
 UT = Ultrasonic Test
 MT = Magnetic Particle Test
 ET = Electromagnetic Test

* HEAT TREATMENT : 1080 DEGREE CELSIUS QUENCHED IN WATER
 * Products conform to ASME B16.9 2018 and ASME Sec II Part 4-2019 SA-403/SA-403M, Walled formed, annealed and quenched, beveled ends to ASME B16.25.
 * Materials are in accordance to NACE MR 0175 (ISO 15156-1 & 15156-3 -2015) & NACE MR 0103 -2015 (latest Edition)
 * Intergranular Corrosion Test are in accordance to ASTM A262 Practice E : Passed
 * Surface and dimension check has been carried out 100% to all products
 * Pickled and Passivated
 * All Xray (WP-WX) are accordance to ASME VIII PARA UW 51

* Products are mercury free and free from mercury contamination
 * Raw material manufacturer has detected it to be free from radioactive contamination.
 * All fittings are confirmed 100% P.M.I tested
 * Stainless steelmaking : Electric arc furnace
 * Certified according to AD2000 W0 and PED2014/68/EU Annex 1, Paragraph 4.3

PANTECH CORPORATION SDN. BHD.
 Certified True Copy
 23 FEB 2022

QA/QC DEPARTMENT