



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 204334, JALAN PLATINUM UTAMA,

KAWASAN PERINDUSTRIAN PASIR GUDANG, ZON 12B, 81700 PASIR GUDANG

JOHOR DARUL TAKZIM, MALAYSIA

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http://www.pantech-group.com



Cert. No.: KLR 6012814

PED CERTIFICATE NO.: 0038/PED/MUM/1110006/1

ITEM NO: 1
PO NO:
DO NO: 102971

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

Customer: Fuzhe Steel SDN BHD
Product: Welded Austenitic Stainless Steel Fitting

Certificate No: PSA2-FT-3629
Date: 15 May 2018

PO No.	Invoice No.			Product Specification				Dimension & Inspection Specification					
201804037	L000007615			ASTM A403/A403M - 16 / ASME SA 403/SA403M - 15				ASME B16.9 - 12 / ASTM A960/A960M - 16 / ASME SA 960/SA960M - 15					
Heat No.	Product & Size			Quantity (pcs)	Material Grade		Visual / Dimension / PMI Examination		Remarks				
GSA141-01-112CR	2 1/2" X 2"	SCH 10s	CON-REDUCER	80	WP304/304L-W		PASSED		-				
GEA223-01-112CR	3" X 1"	SCH 10s	CON-REDUCER	40	WP304/304L-W		PASSED		-				
EFA290-02-112CR	3" X 1 1/2"	SCH 40s	CON-REDUCER	25	WP304/304L-W		PASSED		-				
FSA080-02-112CR	3" X 2"	SCH 10s	CON-REDUCER	29	WP304/304L-W		PASSED		-				
FSA080-02-182CR	3" X 2"	SCH 10s	CON-REDUCER	2	WP304/304L-W		PASSED		-				
GEA172-01-112CR	3" X 2"	SCH 10s	CON-REDUCER	17	WP304/304L-W		PASSED		-				
GEA172-01-182CR	3" X 2"	SCH 10s	CON-REDUCER	2	WP304/304L-W		PASSED		-				
EFA291-01-112CR	3" X 2"	SCH 40s	CON-REDUCER	10	WP304/304L-W		PASSED		-				
FEA142-02-112CR	3" X 2 1/2"	SCH 10s	CON-REDUCER	80	WP304/304L-W		PASSED		-				
GSA166-01-112CR	6" X 5"	SCH 10s	CON-REDUCER	10	WP304/304L-W		PASSED		-				
Specification Max Min Heat No.	Chemical Composition (%)								Tensile Test ¹			Hardness	Inter-granular corrosion test
	C	Si	Mn	P	S	Cr	Ni	Pb	YS	TS	E		
									(KSI / MPa)	(%)		(HRB)	
	0.030	1.00	2.00	0.045	0.030	20.00	11.00	-	-	-	-	90	
	-	-	-	-	-	18.00	8.00	-	205	515	28	-	
GSA141-01-112CR	0.015	0.47	1.10	0.033	0.002	18.10	8.12	< 0.10	252	646	53	87	PASSED
GEA223-01-112CR	0.024	0.37	1.23	0.035	0.007	18.06	8.02	< 0.10	364	624	53	80	PASSED
EFA290-02-112CR	0.018	0.57	0.96	0.027	0.001	18.26	8.09	< 0.10	358	683	44	82	PASSED
FSA080-02-112CR	0.029	0.47	1.50	0.042	0.001	18.00	8.47	< 0.10	396	694	54	87	PASSED
FSA080-02-182CR	0.029	0.47	1.50	0.042	0.001	18.00	8.47	< 0.10	396	694	54	87	PASSED
GEA172-01-112CR	0.021	0.38	1.19	0.032	0.001	18.17	8.10	< 0.10	290	633	51	85	PASSED
GEA172-01-182CR	0.021	0.38	1.19	0.032	0.001	18.17	8.10	< 0.10	290	633	51	85	PASSED
EFA291-01-112CR	0.029	0.46	0.91	0.028	0.002	18.29	8.09	< 0.10	355	672	58	85	PASSED
FEA142-02-112CR	0.015	0.40	1.05	0.039	0.002	18.17	8.04	< 0.10	364	617	55	83	PASSED
GSA166-01-112CR	0.018	0.42	1.07	0.033	0.003	18.01	8.01	< 0.10	336	635	60	88	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 15156-2:2015 & 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

Head of Quality Assurance Department

PANTECH CORPORATION SDN. BHD.
Certified True Copy
WOO HUI NEE

PANTECH CORPORATION SDN. BHD.
Documentation QC Passed
25 MAY 2018
Raja Fauziah



MILL TEST CERTIFICATE

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(A MEMBER OF PANTECH GROUP HOLDINGS BERHAD, LISTED ON MAIN MARKET OF BURSA MALAYSIA)

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http://www.pantech-group.com



Cert. No.: KLR 0012834

PEO CERTIFICAND.:
0038/PEO/MUM/1110006/1

ITEM NO: 1

PO NO:

DO NO: 103771

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

Customer: Fuzhe Steel SDN BHD
Product: Welded Austenitic Stainless Steel Fitting

Certificate No: PSA2-FT-3701

Date: 3 Jul 2018

PO No.	Invoice No.				Product Specification				Dimension & Inspection Specification					
201808008	L000007823				ASTM A403/A403M - 16 / ASME SA 403/SA403M - 15				ASME B16.9 - 12 / ASTM A960/A960M - 16 / ASME SA 960/SA960M - 15					
Heat No.	Product & Size				Quantity (pcs)	Material Grade		Visual / Dimension / PMI Examination		Remarks				
GBA133-01-112LR	1 1/2"	SCH 10s	90° LR ELBOW		1806	WP304/304L-W		PASSED		-				
GSA226-02-112LR	2"	SCH 10s	90° LR ELBOW		3000	WP304/304L-W		PASSED		-				
GSA216-03-112T	6"	SCH 40s	TEE		10	WP304/304L-W		PASSED		-				
GSA225-04-112CR	1" X 1/2"	SCH 10s	CON-REDUCER		100	WP304/304L-W		PASSED		-				
DDA215-01-112CR	1 1/4" X 1"	SCH 10s	CON-REDUCER		20	WP304/304L-W		PASSED		-				
FSA062-01-112CR	1 1/2" X 3/4"	SCH 10s	CON-REDUCER		4	WP304/304L-W		PASSED		-				
FSA122-01-182CR	1 1/2" X 3/4"	SCH 10s	CON-REDUCER		1	WP304/304L-W		PASSED		-				
FEA150-01-112CR	1 1/2" X 1"	SCH 10s	CON-REDUCER		180	WP304/304L-W		PASSED		-				
FSA104-04-112CR	1 1/2" X 1"	SCH 40s	CON-REDUCER		20	WP304/304L-W		PASSED		-				
CFA171-06-112CR	1 1/2" X 1 1/4"	SCH 10s	CON-REDUCER		50	WP304/304L-W		PASSED		-				
Specification Max Min Heat No.	Chemical Composition (%)									Tensile Test ¹			Hardness (HRB)	Inter-granular corrosion test
	C	Si	Mn	P	S	Cr	Ni	Pb		YS (KSI / MPa)	TS	E (%)		
	0.030	1.00	2.00	0.045	0.030	20.00	11.00	-		-	-	-	80	
	-	-	-	-	-	18.00	8.00	-		205	515	28	-	
GBA133-01-112LR	0.019	0.40	1.75	0.033	0.001	18.20	8.00	< 0.10		379	630	48	87	PASSED
GSA226-02-112LR	0.023	0.51	1.04	0.030	0.002	18.08	8.12	< 0.10		398	694	50	87	PASSED
GSA216-03-112T	0.018	0.58	0.93	0.032	0.002	18.10	8.03	< 0.10		345	627	60	84	PASSED
GSA225-04-112CR	0.020	0.35	1.04	0.031	0.003	18.20	8.02	< 0.10		331	607	54	84	PASSED
DDA215-01-112CR	0.019	0.31	1.34	0.030	0.005	18.03	8.00	< 0.10		369	672	52	87	PASSED
FSA062-01-112CR	0.024	0.38	1.51	0.036	0.002	18.34	8.36	< 0.10		336	673	40	88	PASSED
FSA122-01-182CR	0.026	0.38	1.43	0.036	0.002	18.32	8.19	< 0.10		496	881	53	81	PASSED
FEA150-01-112CR	0.018	0.36	0.94	0.038	0.001	18.00	8.07	< 0.10		412	728	57	89	PASSED
FSA104-04-112CR	0.015	0.30	1.52	0.027	0.002	18.16	8.16	< 0.10		369	574	47	82	PASSED
CFA171-06-112CR	0.029	0.50	0.93	0.031	0.002	18.20	8.11	< 0.10		389	706	54	82	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-MR01-75-2015 / ISO 15156-2015 & NACE-MR01-03-2015

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



Head of Quality Assurance Department





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Cert. No.: KLR 6012814

PED CERTIFICATE NO.: 0038/PED/MUM/1110006/L

ITEM NO: 1.

PO NO:

DO NO: 32174

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

Customer: Fuzhe Steel SDN BHD
Product: Welded Austenitic Stainless Steel Fitting

Certificate No: PSA2-FT-3701

Date: 3 Jul 2018

PO No.	Invoice No.			Product Specification			Dimension & Inspection Specification							
201806006	L000007823			ASTM A403/A403M - 16 / ASME SA 403/SA403M - 15			ASME B16.9 - 12 / ASTM A960/A960M - 16 / ASME SA 960/SA960M - 15							
Heat No.	Product & Size			Quantity (pcs)	Material Grade	Visual / Dimension / PMI Examination		Remarks						
GBA133-01-112LR	1 1/2"	SCH 10s	90° LR ELBOW	1908	WP304/304L-W	PASSED		-						
GSA226-02-112LR	2"	SCH 10s	90° LR ELBOW	3000	WP304/304L-W	PASSED		-						
GSA216-03-112T	6"	SCH 40s	TEE	10	WP304/304L-W	PASSED		-						
GSA225-04-112CR	1" X 1/2"	SCH 10s	CON-REDUCER	100	WP304/304L-W	PASSED		-						
DDA215-01-112CR	1 1/4" X 1"	SCH 10s	CON-REDUCER	20	WP304/304L-W	PASSED		-						
FSA062-01-112CR	1 1/2" X 3/4"	SCH 10s	CON-REDUCER	4	WP304/304L-W	PASSED		-						
FSA122-01-182CR	1 1/2" X 3/4"	SCH 10s	CON-REDUCER	1	WP304/304L-W	PASSED		-						
FEA150-01-112CR	1 1/2" X 1"	SCH 10s	CON-REDUCER	160	WP304/304L-W	PASSED		-						
FSA104-04-112CR	1 1/2" X 1"	SCH 40s	CON-REDUCER	20	WP304/304L-W	PASSED		-						
CFA171-06-112CR	1 1/2" X 1 1/4"	SCH 10s	CON-REDUCER	50	WP304/304L-W	PASSED		-						
Specification Max Min Heat No.	Chemical Composition (%)								Tensile Test ¹			Hardness (HRB)	Inter-granular corrosion test	
	C	Si	Mn	P	S	Cr	Ni	Pb	YS (KSI / MPa)	TS	E (%)			
	0.030	1.00	2.00	0.045	0.030	20.00	11.00	-	-	-	-	90		
	-	-	-	-	-	18.00	8.00	-	205	515	28	-		
GBA133-01-112LR	0.019	0.40	1.75	0.033	0.001	18.20	8.00	< 0.10		379	630	48	87	PASSED
GSA226-02-112LR	0.023	0.51	1.04	0.030	0.002	18.08	8.12	< 0.10		398	694	50	87	PASSED
GSA216-03-112T	0.018	0.58	0.93	0.032	0.002	18.10	8.03	< 0.10		345	627	60	84	PASSED
GSA225-04-112CR	0.020	0.35	1.04	0.031	0.003	18.20	8.02	< 0.10		331	607	54	84	PASSED
DDA215-01-112CR	0.019	0.31	1.34	0.030	0.005	18.03	8.00	< 0.10		369	672	52	87	PASSED
FSA062-01-112CR	0.024	0.36	1.51	0.036	0.002	18.34	8.36	< 0.10		336	673	40	86	PASSED
FSA122-01-182CR	0.026	0.38	1.43	0.036	0.002	18.32	8.19	< 0.10		496	861	53	81	PASSED
FEA150-01-112CR	0.018	0.36	0.94	0.038	0.001	18.00	8.07	< 0.10		412	728	57	89	PASSED
FSA104-04-112CR	0.015	0.30	1.52	0.027	0.002	18.16	8.16	< 0.10		369	574	47	82	PASSED
CFA171-06-112CR	0.028	0.50	0.93	0.031	0.002	18.20	8.11	< 0.10		389	706	54	82	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

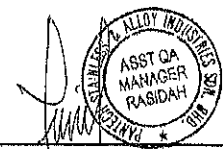
INTERGRANULAR CORROSION TEST ACCORDING TO ASTM A262-10 PRACTICE E

HARDNESS ACCORDING TO NACE-MR0175-2015 / ISO 15156-2013 & NACE-MR0103-2015

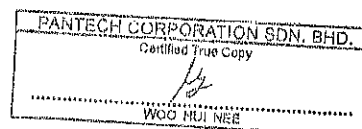
HEAT TREATMENT: SOLUTION TREATED AT MINIMUM 1050°C, RAPIDLY COOLED WITH WATER

CHEMICAL COMPOSITION CAPTURED FROM RAW MATERIAL'S HEAT ANALYSIS

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



Head of Quality Assurance Department





MILL TEST CERTIFICATE

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http://www.pantech-group.com



Cert. No.: KLR 0012814

PEO CERTIFICATE NO.: 0038/PEO/MUM/1110006/1

ITEM NO: 1

PO NO:

DO NO: 89749

INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1

Customer: Fuzhe Steel SDN BHD
Product: Welded Austenitic Stainless Steel Fitting

Certificate No: PSA2-FT-3628

Date: 15 May 2018

PO No.	Invoice No.	Product Specification				Dimension & Inspection Specification	
201804037	L000007615	ASTM A403/A403M - 16 / ASME SA 403/SA403M - 15				ASME B16.9 - 12 / ASTM A960/A960M - 16 / ASME SA 960/SA960M - 15	
Heat No.	Product & Size		Quantity (pcs)	Material Grade	Visual / Dimension / PMI Examination	Remarks	
GSA176-01-112T	4"	SCH 10s TEE	130	WP304/304L-W	PASSED	-	
GSA154-01-112RT	2" X 1"	SCH 10s REDUCING TEE	300	WP304/304L-W	PASSED	-	
DDA216-01-112CR	1" X 3/4"	SCH 10s CON-REDUCER	30	WP304/304L-W	PASSED	-	
DSA036-01-112CR	1" X 3/4"	SCH 10s CON-REDUCER	1	WP304/304L-W	PASSED	-	
EFA268-02-112CR	1" X 3/4"	SCH 10s CON-REDUCER	12	WP304/304L-W	PASSED	-	
FFA382-01-112CR	1" X 3/4"	SCH 10s CON-REDUCER	133	WP304/304L-W	PASSED	-	
DSA016-02-112CR	1 1/2" X 1"	SCH 10s CON-REDUCER	160	WP304/304L-W	PASSED	-	
FSA104-04-112CR	1 1/2" X 1"	SCH 40s CON-REDUCER	60	WP304/304L-W	PASSED	-	
DDA222-01-112CR	2" X 1"	SCH 40s CON-REDUCER	10	WP304/304L-W	PASSED	-	
GSA154-01-112CR	2" X 1 1/2"	SCH 10s CON-REDUCER	120	WP304/304L-W	PASSED	-	

Specification	Chemical Composition (%)								Tensile Test ¹			Hardness	Inter-granular corrosion test
	C	Si	Mn	P	S	Cr	Ni	Pb	YS (KSI / MPa)	TS (KSI / MPa)	E (%)	(HRB)	
	Max	Min	Max	Min	Max	Max	Max	Max	Max	Max	Max	Max	
Heat No.	0.030	1.00	2.00	0.045	0.030	20.00	11.00	-	-	-	-	90	
GSA176-01-112T	0.019	0.44	1.03	0.033	0.002	18.17	8.00	< 0.10	382	655	53	88	PASSED
GSA154-01-112RT	0.022	0.47	1.09	0.032	0.003	18.27	8.17	< 0.10	375	664	47	83	PASSED
DDA216-01-112CR	0.018	0.35	1.36	0.031	0.008	18.18	8.02	< 0.10	344	640	51	85	PASSED
DSA036-01-112CR	0.030	0.39	1.80	0.040	0.002	18.10	8.01	< 0.10	285	610	52	82	PASSED
EFA268-02-112CR	0.028	0.45	0.83	0.033	0.002	18.22	8.05	< 0.10	343	713	53	86	PASSED
FFA382-01-112CR	0.024	0.45	1.03	0.032	0.005	18.13	8.08	< 0.10	404	706	55	89	PASSED
DSA016-02-112CR	0.030	0.45	1.57	0.037	0.002	18.16	8.05	< 0.10	253	632	58	81	PASSED
FSA104-04-112CR	0.015	0.3	1.52	0.027	0.002	18.16	8.16	< 0.10	392	757	58	83	PASSED
DDA222-01-112CR	0.024	0.30	1.31	0.031	0.007	18.14	8.03	< 0.10	387	661	49	89	PASSED
GSA154-01-112CR	0.022	0.47	1.09	0.032	0.003	18.27	8.17	< 0.10	375	664	47	83	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 B

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

PANTECH CORPORATION SDN. BHD.
Certified True Copy
WOO HUI NEE

Head of Quality Assurance Department

PANTECH CORPORATION SDN. BHD.
Documentation QC Passed
30 MAY 2018
Raja Fauziah

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 204334, JALAN PLATINUM UTAMA,

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INSPECTION DOCUMENT: EN 10204: 2004 Type 3.1



Cert. No.: KLR 6012814

PED CERTIFICATE NO :



Cert. No.: PC00278

ITEM NO:

PO NO:

DO NO: 70534

Customer: Fuzhe Steel SDN BHD

Product: Welded Austenitic Stainless Steel Fitting

Certificate No: PSA2-FT-2737

Date: 8 Jan 2018

[illegible]

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

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

^aY: YS: YIELD STRENGTH TS: TENSILE STRENGTH E: ELONGATION

ASST QA MANAGER
RASIDAH

Head of Quality Assurance Department

