

QW - 482 WELDING PROCEDURE SPECIFICATION (WPS)

COMPANY NAME: JG A	CERO INDUSTRIES	PVT.LTD. NASHII	K.			Page 1 of		
Welding Procedure Spe	Rev: 1	Date: 07/01/2021						
Welding Process(es): G	Manual	lanual PQR NO. : JGAIPL/CS/PQR/01						
JOINTS: (QW -	102)							
- Groove Design (Root face, Root spaci	As per applicable Manufacturing Drawing as referenced in Weld Plan							
- Backing : Yes / No (Refers to both Backing) - Backing Material (Ty)	With backing or without backing as per applicable Manufacturing Drawing as referenced in Weld Plan Retainers not used. -Metal/Weld Metal							
☑ Metal □ Nonmetalli		letal Others	-Wetal Wetal					
BASE METALS : (QW - 403)		FILLER M	ETAL : (QV	N - 404)			
D No 1 Co No 1 2 2	TO D. N. 4.0.		Process		GTAW	SMAW		
P. No. 1 Gr. No. 1,2,3 OR	SFA No.		5.18	5.1				
			AWS (Class)		ER70S2	E-7018		
Specification Type & Gr	ade	<u> </u>	F. No.		6	4		
Specification Type & 0	Grade		A. No.		1	1		
OR	Size of Filler Metal (mm)	dia	1.6, 2.0,2.4, 2.5, 3.0,3.15 Bare wire	2.5 , 3.15 , 4 Bare Wire				
Chemical Analysis & Mechanical Properties TO Chemical Analysis & Mechanical Properties			Filler metal p	roduct form	Bare (Solid)	Bare (Solid)		
			Flux Trade Name/Design	nation	Not Applicable	Not Applicable		
			Consumable	Insert	Not Applicable	Not Applicable		
	GROOVE	FILLET	Range of Deposited	Groove	6 Max.	14 Max.		
Base Metal Thk. Range (mm)	1.5 to 20 mm	Any	Weld metal Thk. (mm)	Fillet	Any	Any		
Pipe dia (mm) Range (mm)	Any	Any	Thk. Per pass t pass > ½ in		NO	NO		
			Flux Type		Not Applicable	Not Applicable		
Others: - Not Applicable			Others: - Not Applicable					
POSITION: (QW – 405)			PREHEAT: (QW – 406)					
Position(s) of Groove: All			Preheat Temperature (Min.) °C : 15					
Weld Progression : Up Hill			Inter pass Temperature (Max.) °C : 150					
Position(s) of fillet : All			Preheat Maintenance : Not Applicable					







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COMPANY NAME: JG ACERO INDUSTRIES PVT.LTD. NASHIK. Page 2 of 2 Welding Procedure Specification No. : JGAIPL/CS/WPS/01 Rev: 1 Date: 07/01/2021

Welding Process(es): GTAW + SMAW Type(s): Manual					PQR NO. : JGAIPL/CS/PQR/01						
POST	WELD HEA	ATTREATME	NT(QW-40	07)		GAS : (QW-408	3)			
Type	ype : Not Applicable							Gas(es)	% Comp Mixture	Flow Rate	
Temperature Range °C : Not Applicable					Shielding		Argon	99.99%	5 -15		
Time Range : Not Applicable					Trailing		None				
, was applied by						Backing (For root pass of groove)		None			
ELECT	RICAL C	HARACTR	ISTICS : (C	QW-40	9)		7			•	
Type of	Current	: DC			Polarity : GTAW- SP (Electrode - Ve) , SMAW –RP (Electrode +ve)						
	Amps(Range) : 80 A to 130A				Volts : 11 V to 30V (For Reference Only)						
2.0,2.4,3	3.0,4.0mm,2	Size and Type 1% Thoriated (EWTH) for G1	TAW	Hea	t input	: As requir	ed.			
Mode of Metal transfer: Not Applicable				Pulsing Current: With or Without							
TECH	NIQUE:	(QW-410)									
Manual/	Name of the state of				Contact Tube to work distance (mm) : Not Applicable						
	Weave Bea	200000	String / Weav	ve	Multiple or single Pass per side : Multiple/Single						
Orifice or Gas Cup Size ϕ (mm) : 6 to 12.5 Multiple or					tiple or Singl	ngle Electrode : Single					
Initial and Inter pass Cleaning: Grinding / Wire Brush Travel Speed				el Speed (Ra	Range) mm/ min : As required						
Method of Back Gouging : Grinding					Peening : Not Applicable						
Closed to out of chamber : Not Applicable				Electrode Spacing : Not Applicable							
	Oscillation : Not Applicable					Use of thermal processes : Not Applicable					
Others: 1	Surface to brush/whe	be welded sh	all be free fro	om Greas	e, Oil	Scale & Rust	. Cleaning	shall be dor	ne with wire		
Commence Commence	Process / es	Filler Metal		Current (A)		Voltage		Remar	Remarks		
1000 00000 F 071 40.07047		Class	Dia. mm	Amp Range	•	Type Polarity	Range (V)	Speed Range cm/min			
Root Pass &	GTAW	ER70S2	1.6	110 to		DC	*11 to	As	* Volta	* Voltage Range For reference Only	
1 st Run			2.0	115 to 115 to		EN	25	required	referen		
Rest		E-7018	2.5	115 to	130	DC	*11 to	As	* Voltas	ge Range For	
Passes	SMAW		3.15 4.0	130 to		EP	30	required	20	reference Only	
	PREPARED BY APPROV				,	REVIEWED BY					
WE	LUIS ENG		LTANC	8)	111'	2021					
SPM CONSULTANCY SERVICES SEM CONSULTANCY				NCY S	ERVICES	CLIENT					