

LYNN WELDING



¹ Autogenous welds are not permitted. This applies to tack welds as well as the production weld.

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LYNN WELDING NEWINGTON, CT 06111

Welding Procedure Specification

-	WPS:
	Rev.:
)	

GTA-S25A22B A 26-June-2021

	Cleaning: F in Back Gouging: F Back Gouging: F Weld Marking: A Inspection: V b Cleaning: F Cleaning: F	Prior to Welding: Joint and adjacent surfaces within 1 nch of joint shall be free of oxides. Paint, oils, grease, or other hydrocarbons within 4 inches of the weld joint shall be removed. Sheared or machined surfaces of groove welds shall be draw filed. Surfaces (OD & ID) should be wire orushed with a stainless steel brushed and flushed or wiped with 90% isopropyl alcohol and allowed to completely evaporate before welding. Post Welding: Wire brush all completed welds. Rotate files are the preferred method of backgouging. All complete joint penetration double sided groove welds shall be back gouged to sound metal before welding the second side. None As directed in the work order or on drawing. Welds are to be visually inspected by the welder before requesting QC inspection. Visual acceptance criteria shall be as per MIL-STD-2035A for the applicable Service Class indicated by the approved drawing.	
5		The extent of the required inspection performed by QC shall be as per NAVSEA-S9074-AR-GIB- 010/278, Table VIII, IX, or X for the applicable Service Class indicated by the approved drawing.	
	Joint Details: T	This WPS can be used to weld any joint listed in MIL- STD-22D (or as approved by the customer) with the ollowing limitations/exceptions:	
		Complete joint penetration groove welds made from one side are limited to 1/8-inch maximum thickness.	
		Complete joint penetration groove welds made with backing or double sided (when the second side is back gouged to sound metal) are permitted.	
		 Fillets on coated surfaces (paint, etc.), Fillets on coated surfaces (paint, etc.), Tube to tube sheet, Internal tube to header, Cladding for corrosion or abrasion resistance Joints with preplaced filler metal inserts 	

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Table 1 - Recommended Matching Filler Metal Group										
Base Metal Alloy		S22		S25						
		5052	5454	5083	5086	5456				
600	5052	R5356	R5356	R5356	R5356	R5356				
522	5454	R5356	R5554/R5356	R5356	R5356	R5554				
	5083	R5356	R5356	R5556	R5356	R5556				
S25	5086	R5356	R5356	R5356	R5356	R5356				
	5456	R5356	R5554	R5556	R5356	R5556				

The preferred filler metal alloy is listed first with the alternative filler metals listed second.

Kynn Weldir,

When specified by the customer, the filler metal classification shall be as specified by the approved drawing or traveler.