PRODUCTS 1



Inomaxx® TIG

Maximum performance for welding stainless steel

The Inomaxx® gases have been developed to give optimum weld quality and ease of use without compromise on material performance. Inomaxx® gases also provide a high-grade surface finish with low reject rates and superb environmental performance.

The best gas for TIG welding stainless steel

Inomaxx® TIG is a mixture of argon and hydrogen which is used to TIG weld stainless steel of all thicknesses.

- Improves weld quality and reduces oxides. Its excellent characteristics produce brilliant, smooth, flat weld finish.
- Higher productivity (up to 30% increase in manual weld speeds when compared with argon)
- Protects the work environment, minimal ozone generation.



Approved welding procedure Inomaxx® TIG Manufacturer: Air Products PLC Air Products Ireland Ltd Welding process: TIG 141 Joint type: Fillet

Welded joint design			
Preparation of parts	Sandblasting and solvent cleaning		
Parent material and specifications	Stainless steel EN 10088-2 X2CrNi 19-11		
Composition	C - 0.030% max. Si - 1.0% max. Mn - 2.0% max. P - 0.049% max. S - 0.030% max. Cr - 17.0 / 19.0% Ni - 9.0 / 12.5%		
Material thickness	3 mm		
Outside diameter	n/a		
Welding position	Flat (PB)		

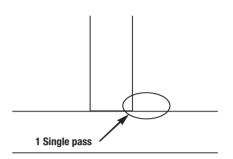
Welding details								
Run	-			Voltage (V)	Current &			Heat Input (KJ)
1	TIG	1.6	155	15	DC-	n/a	100	1.39
2								
3								
4								
5								
6								

Filler metal and specification	AWS A 5.9 ER 308 L
Filler metal composition	C - 0.03% max Si - 0.65 / 1.00%
	Mn - 1.50 / 2.50% - P - 0.030% max.
	S - 0.030% max Cr - 19.5 / 21.0%
	Mo - 0.50% max Ni - 9.50 / 11.0%
	Cu - 0.50% max.
Shielding gas	Inomaxx® TIG
Classification of shielding gas	S EN 439 – R1
Gas flow rate	
– Shield gas	10 l/min
Purge	n/a
TIG electrode type	Thoriated 2.4 mm diameter
Underside protection	n/a
Preheat temperature	Ambient
Interpass temperature	n/a
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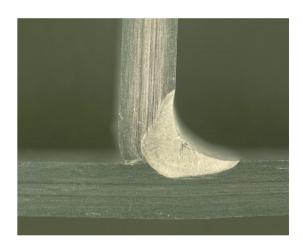
Heat treatment	n/a
Torch angle	15° in the direction of welding
Nozzle bore diameter	20 mm

*n/a: not applicable

Welding sequence



Macrography



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