# PRODUCTS 1



### Inomaxx® Plus

## 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 stainless steel

 $Inomaxx^{\scriptsize @}$  Plus is a mixture of argon, helium and  $CO_2\,used$  to weld stainless steel:

- Improves weld quality and reduces rejects, with excellent penetration characteristics and a greater tolerance to variations in weld parameter settings
- More productive, up to 17% increase in manual weld speeds when compared with conventional mixtures
- Particularly suitable for welding thick materials and suitable for all modes of metal transfer
- · Protects the work environment, minimal ozone generation



Approved welding procedure Inomaxx® Plus				
Manufacturer:	Air Products PLC			
	Air Products Ireland Ltd			
Welding process:	MAG 135			
Root welding process:	MAG 135			
Joint type:	Butt			

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 - 0.045% max. S - 0.030% max. Cr - 17.0 / 19.0% Ni - 9.0 / 12.5%
Material thickness	12.5 mm
Outside diameter	n/a
Welding position	Flat (PA)

N	<i>leldin</i>	ng det	tails					
Run	_	iameter of iller metal (mm)	Current (A)	Voltage (V)		- 1	Travel Speed (mm/min)	Heat Input (KJ)
1	MAG	1.0	254	27.0	DC+	6.9	438	0.94
2	MAG	1.0	226	27.5	DC+	7.3	420	0.88
3	MAG	1.0	230	27.0	DC+	7.3	420	0.88
4								
5								
6								
Fill	Filler metal and specification 316LSi AWS A5.9 ER316LSi				6LSi			
Filler metal composition C - 0.03% max Si - 0.65 / 1.00%					00%			
				Mn - 1.50 / 2.50% - P - 0.030% max				
				9	S - 0.030%	max (	Cr - 19.5/	21.0%
				1	<b>VIo</b> - 0.50%	% max.N	i-9.50/1	1.0%
				(	Cu - 0.50%	max.		
Classification of shielding gas EN 439 - M 12(2)								
Shielding gas			I	Inomaxx® Plus				
Gas flow rate - Shield			-	18 I/min				
Purge				1	n/a			

n/a

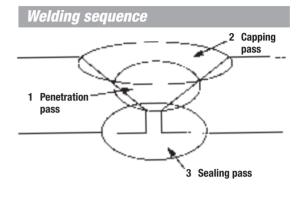
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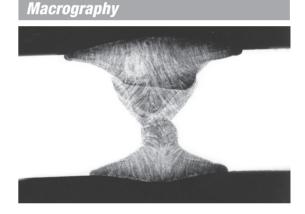
Ambient

150°C max

Heat treatment	n/a
Stand off distance	15 mm
Torch angle	15° in the direction of welding
Nozzle bore diameter	20 mm

\*n/a: not applicable





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TIG electrode type

Underside protection

Preheat temperature

Interpass temperature