

STARGON™ SS GMAW - MIG - STAINLESS STEEL

Ar

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Improve Productivity and Save Money.

Argon-based blend enhances stainless steel welding.

Praxair's Stargon SS blend gives you an edge in today's competitive market for stainless steel welding. Stargon SS blend is a carefully controlled blend of argon, carbon dioxide and nitrogen that can help you achieve reduced costs, higher deposition rates, quality welds and improved weldability.

Even under the most challenging conditions, Stargon SS blend can help you produce highquality welds with very light surface oxide and improved colour matching in all positions using short circuit, spray and pulsed spray transfer modes.



Typical Applications

- Pulsed and spray welding of dump truck bodies.
- Joining thin gauge stainless in the food service industry.
- Duplex stainless steel pipe and other pipe alloys commonly used in the chemicals industry.
- Architectural applications where minimal distortion and appearance are of concern.
- Thin gauge applications where low base material distortion is required.

FEATURES	BENEFITS		
Argon-based blend	Readily available30-50% lower flow rates20% more product per cylinder		
Excellent chemistry control	Maintained weld metal nitrogen levels for corrosion resistance Reduced weld metal carbon content for corrosion resistance		
Enhanced weldability	Improved arc starts and good arc stability Less post weld cleanup		
Enhanced weld quality	 Improved penetration and bead shape Reduced heat input for less burn through and distortion Reduced heat affected zone Light surface oxide and surface appearance Enhanced colour matching 		
Excellent performance in multiple processes	 Great weldability in short circuit mode Higher travel speeds and deposition rates in spray and pulsed spray modes 		

When compared to helium blends (see page 2)

Engage with Praxair to put *Stargon* SS welding gas blend to work for you:







Performance Characteristics

8

6

4

2

0

HeliStar SS

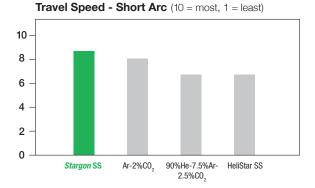
Stargon SS

The charts below compare Stargon SS gas blend and other shielding gas blends using the MIG process and 308LSi filler wire in a range of operating conditions. To learn more about the best shielding gas options for your specific application, consult a Praxair representative.

Ar-2%0,

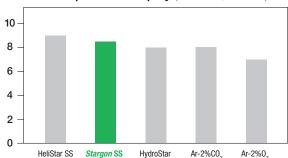
Ar-2%CO,

Travel Speed - Pulsed Spray (10 = most, 1 = least) 10

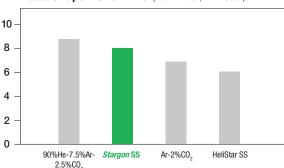


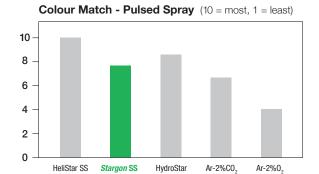


HydroStar











WELDING PARAMETERS SELECTION TABLE			
Wire diameter	Wire feed speed (ipm)	Current level (amps)	Voltage (volts)*
0.035" (1.0 mm)	275-375	115-145 (short arc)	18-20
0.035" (1.0 mm)	250-350	90-120 (pulsed spray)	20-22
0.045" (1.2 mm)	200-275	150-195 (short arc)	19-21
0.045" (1.2 mm)	200-275	150-195 (pulsed spray)	21-23

^{*}Voltage level for 60 Hz power supply. Add 2-3 volts for 50 Hz models.

