

Stargon™ CS

Argon/Carbon Dioxide/Oxygen Blend

Short Circuit
Globular
Spray

Stargon CS provides high quality welds under the most challenging circumstances. Praxair's Stargon CS is a precise mixture of argon, carbon dioxide and oxygen and is designed to meet the varying needs of your MIG/MAG (GMAW) applications.

Stargon CS is a universal gas blend that operates well in short-circuit, high deposition rotary-arc, conventional spray and pulsed-spray processes. It produces good arc characteristics and excellent

weld metal mechanical properties when used to join a wide range of materials.

Used in conventional spray transfer applications, Stargon CS provides higher deposition rates and travel rates above what CO₂ or high CO₂ content blends can deliver. Outstanding out-of-position welding properties with pulsed-spray and short-circuit applications make Stargon CS an excellent choice for robotic welding applications.

Product Features

Benefits

Multipurpose/Universal

- Can be used for all types of GMAW/wide operating range
- Optimized mix for a variety of shop applications

Good wetting characteristics

- Good bead profile

Low oxidizing potential

- Excellent surface appearance

Controlled CO₂ and O₂ additions

- Permits a short, controllable arc length for use on thin gauge material; optimum penetration

High productivity; ideally suited for robotics

- 20-30% improvement in weld travel speed versus CO₂

Low fume levels

- 50-100% lower fume levels versus CO₂

Typical Applications

- Short arc, pulsed, and spray arc transfer for joining various thickness steel sections for mobile cranes, earth-moving and farm equipment
- For thin gauge carbon steel pipe used in sprinkler systems; auto-body repair
- Ideal for robotic arc applications due to universal performance features of Stargon gas blend
- Can be used with specially formulated flux-cored and metal-cored wires
- Pressure vessels and ship construction—for thicker materials, including structural steel