Argoshield® Universal

Argoshield® Universal has been formulated for general fabrication of carbon steel over the typical thickness range 5-12 mm. This gas mixture is easy to use, giving good weld performance across a wide range of applications and welding parameters. It can be used in any position, for single- and multi-pass welds in dip, spray, pulsed or synergic mode. Combined with its excellent arc stability, low spatter and broad weld profile, these advantages make Argoshield® Universal an excellent choice for quality and economy in general engineering applications.

Afrox MSDS number: SG/MSDS 3

Hazards
- Asphyxiant in high concentrations
- Compressed – high pressure gas mixture in cylinders.

Classifications

Gas Components
- Argon
- Carbon dioxide
- Oxygen

Material Description | Mass (kg) | Cylinder Capacity (l) | Pressure @ 20°C (Bar) | Valve Outlet Connection | Item Number
---|---|---|---|---|---
ARGOSHIELD® UNIVERSAL CYL 18.5 KG | 18.5 | 50.0 | 200 | 5/8” BSPF right hand female | 28-SE

Applications
- General fabrication
- General industrial products
- Light to medium-plate fabrication
- Structural steelworks
  - Bridgework
  - Pipe and tube joining
  - Vehicle manufacture/heavy trucks.

Features

Excellent arc stability | Low spatter
Low distortion | Minimal post weld straightening
Low oxidation potential | Smooth weld bead
Used in dip, pulsed and spray metal transfer modes | Higher productivity
Low levels of nitrogen and moisture | Low porosity and other defects
High levels of accuracy and quality control during production | Reproducible weld quality from cylinder to cylinder
Precautions in Use

• Use only approved pressure rated equipment
• Use only in well ventilated areas
• Open cylinder valve slowly
• Close cylinder valve when not in use
• Do not allow oil or grease on cylinder or valve
• Cylinders should be secured from falling over
• Refer to MSDS for more information.

Material Compatibility

Argoshield® Universal is non-corrosive and so any common metal is acceptable, provided the equipment is designed to withstand process pressure.

Current/Voltage Envelope

Operating limits for 0.9 mm, 1.0 mm and 1.2 mm diameter wires.

Electrode stick out, contact tip-to-work distance 19-25 mm for spray,
6-13 mm for dip, gas flow rate 15-20 l/min