Stainshield®

Stainshield® is a general formulation gas for welders using the GMAW process on all stainless steels. It offers an economical solution, suitable for many applications on a wide range of metal thicknesses. Stainshield® is particularly suitable where minimal oxidation of the weld is required and where it is important to avoid risk of carbon contamination of the product. Stainshield® performs well across a range of applications providing good arc stability in dip, pulse and spray transfer modes.

Afrox MSDS number: SG/MSDS 5

Hazards

• Asphyxiant in high concentrations
• Compressed – high pressure gas mixture in cylinders.

Classifications

Gas Components

| Argon     | Oxygen |

Material Description | Mass (kg) | Cylinder Capacity (l) | Pressure @ 20°C (Bar) | Valve Outlet Connection                  | Item Number |
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<tbody>
<tr>
<td>STAINSHIELD® CYL 17,4 KG</td>
<td>17,4</td>
<td>50,0</td>
<td>200</td>
<td>5/8” BSPF right hand female</td>
<td>27-SE</td>
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Applications

• All stainless steels
• Tubing and pipework
• Tanks and vessels.

Features | Benefits
---|---
High weld quality | Proven technology
Good penetration | Low porosity and other defects
No carbon pick-up | Maintains corrosion resistance
Low levels of nitrogen and moisture | Versatile – can be used across a range of thicknesses
High levels of accuracy and quality control during production | Low spatter

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

Stainshield® 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 1,0 mm and 1,2 mm diameter wires.
Electrode stick out, contact tip-to-work distance 19-25 mm for spray, 8-13 mm for dip, gas flow rate 15-18 l/min