

Applications

Pumps, valves, pipework and vessels for use in aggressive environments in chemical process plants, also in equipment for flue gas desulphurisation and critical equipment in offshore oil and gas production.

Characteristics on Usage

- ① SM-276(ST-276) is a Ni-based MIG(TIG) wire with 60%Ni+17%Cr+16%Mo provide good corrosion resistance in a wide range of aggressive organic and inorganic acid media.
- ② Preheat is not required, interpass temperature should preferably be kept below 100°C(212°F) and heat input restricted to 1.5KJ/min.

Shielding Gas

Ar, Ar + He

Typical Chemical Composition of Wire (%)

| C | Si | Mn | P | S | Cr | Ni | Mo | W |
|------|------|------|-------|-------|------|------|-------|------|
| 0.02 | 0.05 | 0.50 | 0.003 | 0.001 | 17.0 | 61.0 | 16.00 | 3.50 |

Typical Mechanical Properties of All-Weld Metal

| TS MPa(lbs/in ²) | EL (%) |
|---------------------------------|-----------|
| 750 (108,100) | 33 |

Packing

| | | | | | |
|--------|----------|---------------|-----|-----|-----|
| SM-276 | Size(mm) | 1.0 | 1.2 | 1.4 | 1.6 |
| | Weight | Spool: 12.5kg | | | |
| ST-276 | Size(mm) | | 2.0 | 2.4 | 3.2 |
| | Weight | 5kg*1,000mm | | | |