CARBOFIL 1A

TOP FEATURES

- Very consistent welding performance
- Optimal bead profile appearance and minimal spatters
- Available in all packagings from spools to drums.

TYPICAL APPLICATIONS

- General fabrication
- Heavy Fabrication
- Automotive
- Structural fabrication
- Robotics

APPROVALS

| ABS | LR | DNV | ΤÜV | DB | CE |
|-----|----|-----|-----|----|----|
| + | + | + | + | + | + |

CLASSIFICATION

EN ISO 14341-A

ER70S-6

SHIELDING GASES (ACC. EN ISO 14175)

G 46 3 C1 4Si1

G 46 4 M21 4Si1

Active gas 100% CO₂

Mixed gas Ar+ 15-25% CO₂

Mixed gas Ar+ 0.5-5% CO_z+ 0.5-3% O_z

AWS A5.18

C1

M14

M21

CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

| C | Mn | Si | Р | S |
|------|-----|-----|--------|--------|
| 0.08 | 1.7 | 0.9 | ≤0.025 | ≤0.025 |

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

| | Chieldine | Condition* | Yield strength (MPa) | Tensile strength (MPa) | Elongation (%) | Impact ISO-V (J) | | |
|----------------|---------------|------------|-------------------------|---------------------------|-------------------|------------------|-------|-------|
| | Shielding gas | Condition | | | | +20°C | -30°C | -40°C |
| Typical values | M21 | AW | ≥460 | 530-680 | ≥24 | ≥100 | ≥80 | ≥70 |
| | C1 | AW | ≥460 | 530-680 | ≥24 | ≥80 | ≥47 | |
| | C1 | 7100 | 2400 | 550 000 | -27 | 200 | | l. |

* AW = As welded

PACKAGING AND AVAILABLE SIZES

| Wire diameter (mm) | Packaging | Weight (kg) | | |
|-----------------------|---------------|---------------------|--|--|
| 0.0 | SPOOL (B300) | 16.0 | | |
| 0.8 | DRUM | 300.0 | | |
| | SPOOL (B300) | 16.0 | | |
| 1.0 | SPOOL (BS300) | 16.0 | | |
| | DRUM | 300.0, 600.0 | | |
| | SPOOL (S300) | 15.0 | | |
| 1 7 | SPOOL (B300) | 16.0 | | |
| 1.2 | SPOOL (BS300) | 16.0 | | |
| | DRUM | 300.0, 500.0, 600.0 | | |
| 1.6 | SPOOL (B300) | 16.0 | | |



TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application

Safety Data Sheets (SDS) are available here:



Subject to Change – The information is accurate to the best of our knowledge at the time of printing. Please refer to <u>www.lincolnelectric.eu</u> for any updated information.

OERLİKON

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