

PRONAMIC® T2 wire

PRONAMIC® T2 wire is a self-shielded flux-cored wire for welding.

The undiluted deposit contains dense and uniform distribution of primary chromium carbides and complex niobium, molybdenum, tungsten, and vanadium carbides. The surface appearance is typical for this type of hardface, with a family of stress-relief cracks ("check cracks").

Applications

LOESCHE T2 wire is used for

- manufacturing of **PRONAMIC®** tires and grinding plates for vertical mills
- refurbishment of **PRONAMIC®** tires and grinding plates, even over existing worn deposits, using **LOESCHE** approved procedures
- refurbishment of worn high chromium white irons, using **LOESCHE** approved procedures
- capping layers in salvage/localized repairs of high chromium cast iron tires and grinding plates
- refurbishment of **PRONAMIC®** tires and grinding plates.

Restrictions

The deposit should be limited to 3 layers maximum.

This welding wire should not be applied over bare steel castings.

Repair of high chromium cast iron parts is not recommended due to the propensity to brittle fracture. Salvage repairs may be carried out under controlled conditions to achieve some extension in component service life; for best results, use Loesche materials, processes, and supervision.

Specifications

LOESCHE T2 wire complies with EN14700, type T Z Fe16.

| Typical chemical composition (wt. %) of undiluted weld metal | | | | | | | | | |
|--|-----|---------------|------|-------------|-------------------------------|---------------|-----|------|---------|
| C | Si | Mn | Cr | Mo | W | V | Nb | B | Fe |
| 5.5 | 1.0 | 0.2 | 21.0 | 6.5 | 2.0 | 0.8 | 6.0 | 0.03 | Balance |
| Hardness, undiluted 3 layers deposit | | | | | | | | | |
| 61-67 | HRc | | | | | | | | |
| Recommended welding parameters | | | | | | | | | |
| Diameter (mm) | | Current (A) | | Voltage (V) | | Stickout (mm) | | | |
| 1.6 – optimum range | | 150 - 300 | | 24 - 30 | | 15 - 25 | | | |
| 2.8 – optimum range | | 450 - 550 | | 30 - 32 | | 30 - 40 | | | |
| 2.8 - extendend range | | 300 - 550 | | 29 - 32 | | 30 - 40 | | | |
| Standard diameters (mm) | | | | | | | | | |
| 1.6 and 2.8 (for other diameters please consult Loesche) | | | | | | | | | |
| Packing | | | | | | | | | |
| Diameter | | 1.6 mm | | | 2.8 mm | | | | |
| Standard packing | | Spool: BS 300 | | | Drum | | | | |
| Weight | | 15kg | | | Up to 300 kg (standard 250kg) | | | | |

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.