

TIG rod

| Classifications | | | | |
|-----------------|---------------|--------------|--|--|
| EN ISO 14343-A | AWS A5.9 | Material-No. | | |
| W 18 8 Mn | ER 307 (mod.) | 1.4370 | | |

Characteristics and field of use

UTP A 63 is suitable for particularly crack resistant joining and surfacing of high-strength ferritic and austenitic steels, hard manganese steels and cold-tough steels, as cushioning layer under hard alloys, dissimilar metal joints.

The weld metal of UTP A 63 is scale resistant up to 850° C, cold-tough to $-\square 110^{\circ}$ C. Work hardening.

Hardness of the pure weld metal: approx. 200 HB

| Typical analysis in % | | | | | | |
|-----------------------|-----|-----|------|-----|---------|--|
| С | Si | Mn | Cr | Ni | Fe | |
| 0,08 | 0,8 | 6,5 | 19,5 | 9,0 | balance | |

| Mechanical properties of the weld metal | | | | |
|---|---------------------------------|--------------|--|--|
| Yield strength R _{P0,2} | Tensile strength R _m | Elongation A | | |
| MPa | MPa | % | | |
| > 370 | > 600 | > 30 | | |

Welding instruction

Clean weld area thoroughly. Thick walled, ferritic elements have to be preheated to approx. 150-250° C.

Approvals

TÜV (No. 04097)

| Rod diameter x length [mm] | Current type | Shielding gas (EN ISO 14175) |
|----------------------------|--------------|------------------------------|
| 1,2 x 1000* | DC (-) | l1 |
| 1,6 x 1000 | DC (-) | l1 |
| 2,0 x 1000 | DC (-) | 11 |
| 2,4 x 1000 | DC (-) | 11 |
| 3,2 x 1000 | DC (-) | 11 |
| *available on request | | |

