

Universal rutile electrode, designed for welding in any position, including vertical down welding. It is easy to ignite and offers an excellent weldbead aesthetics. It is recommended for general construction of non-alloy and low alloy steel.

## Classification

EN ISO 2560-A : E 42 0 RC 1 1  
AWS A 5.1 : E6013

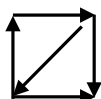
## Applications

- Metal constructions,
- Tanks,
- Pipework,
- Metalwork,
- Crafts

## Benefits

- Easy ignition and re-ignition.
- Good weldability in all positions.
- Flat weld bead (slightly rounded) and easy cleanup.
- Excellent weldbead aesthetics.

## Positions and polarity



- Ignition from 40V - Direct current.
- **Electrode polarity (-).**

## Chemical properties

| C %  | Mn % | Si % | P %   | S %   |
|------|------|------|-------|-------|
| 0.06 | 0.50 | 0.40 | 0.025 | 0.025 |

## Mechanical properties

| Re      | Rm      | A 5 d | KV 0 °C |
|---------|---------|-------|---------|
| 440 MPa | 540 MPa | 24%   | 50 J    |

## Recommendations

| Ø electrode (mm)    | 1.6 | 2.0     | 2.5      | 3.2      | 4.0       |
|---------------------|-----|---------|----------|----------|-----------|
| thickness (mm)      | 1,5 | 1,5 ▶ 3 | 2,5 ▶ 6  | 5 ▶ 8    | 8 ▶ +     |
| welding current (A) | 30  | 40 ▶ 70 | 60 ▶ 100 | 80 ▶ 130 | 130 ▶ 170 |

## Approval

TÜV - DB

## Packaging



| Ref    | Ø (mm) | ↔ (mm) | ↗ x... | weight (kg) |
|--------|--------|--------|--------|-------------|
| 084315 | Ø 1.6  | 300    | 17     | 0.16        |
| 084414 |        |        | 50     | 0.41        |
| 084322 | Ø 2.0  | 350    | 13     | 0.22        |
| 084421 |        |        | 50     | 0.71        |
| 084339 | Ø 2.5  | 350    | 11     | 0.24        |
| 084438 |        |        | 50     | 1.00        |
| 084346 | Ø 3.2  | 350    | 9      | 0.30        |
| 084445 |        |        | 50     | 1.50        |
| 084353 | Ø 4.0  | 350    | 8      | 0.38        |
| 084452 |        |        | 50     | 2.24        |



| Ref    | Ø (mm) | ↔ (mm) | ↗ x... | ↘ x... | weight (kg) |
|--------|--------|--------|--------|--------|-------------|
| 085114 | Ø 1.6  | 300    | 210    | 6      | 1.65        |
| 085121 | Ø 2.0  | 350    | 155    |        | 2.08        |
| 085138 | Ø 2.5  |        | 110    |        | 2.11        |
| 085145 | Ø 3.2  |        | 70     |        | 2.09        |
| 085152 | Ø 4.0  |        | 47     |        | 2.21        |



| Ref    | Ø (mm) | ↔ (mm) | ↗ x... | ↘ x... | weight (kg) |      |
|--------|--------|--------|--------|--------|-------------|------|
| 085022 | Ø 2.0  | 350    | 355    | 3      | 4.82        |      |
| 085039 | Ø 2.5  |        | 230    | 3      | 4.46        |      |
| 085046 | Ø 3.2  |        | 165    | 3      | 4.85        |      |
| 085053 | Ø 4.0  |        | 350    | 110    | 3           | 5.39 |



| Ref    | Ø (mm) | ↔ (mm) | ↗ x... | weight (kg) |
|--------|--------|--------|--------|-------------|
| 081598 | Ø 2.5  | 350    | 75     | -           |
| 081604 | Ø 3.2  |        | 57     | -           |



| Ref    | Ø (mm) | ↔ (mm) | ↗ x... | weight (kg) |
|--------|--------|--------|--------|-------------|
| 086005 | Ø 2.5  | 350    | 252    | 4.6         |
| 086012 | Ø 3.2  |        | 172    | 5           |
| 086029 | Ø 4.0  |        | 117    | 5           |