



## COLD HEADING WIRE

### Know-how shapes success

We specialize in customer-oriented wire products. Due to the steel production possibilities within our group, we can manufacture special steel grades according to customer requirements.

### Top-quality cold heading wire featuring the best formability

- » Integrated production in a unique value chain – from the iron ore to the wire product
- » Highest quality, based on the round-continuous casting for producing the primary material
- » Best formability due to thermo-mechanical rolling
- » Top surface quality and closest diameter tolerances
- » A wide range of chemical compositions and mechanical properties
- » A wide variety of microalloyed cold heading wire grades with tightest tensile ranges and optimised micro structures
- » witeco® - surface technology



## COLD HEADING WIRE

### Steel grades

| DIN       | EN          | EN steel number |
|-----------|-------------|-----------------|
| RFE60     |             | 1.1015          |
| RFE80     |             | 1.1014          |
| QST32-3   | C4C         | 1.0303          |
| QST34-3   | C8C         | 1.0213          |
| QST36-3   | C10C        | 1.0214          |
| QST38-3   | C15C        | 1.0234          |
| Cq15      | C15E2C      | 1.1132          |
| Cq22      | C20E2C      | 1.1152          |
| Cq35      | C35EC       | 1.1172          |
| Cq45      | C45EC       | 1.1192          |
| 17B2      | 17B2 / 18B2 | 1.5502 / 1.5503 |
| 19MnB4    | 20MnB4      | 1.5525          |
| 22B2      | 23B2        | 1.5508          |
| 28B2      | 28B2        | 1.5510          |
| 33B2      | 33B2        | 1.5514          |
| 35B2      | 35B2        | 1.5511          |
| 45B2      | -           | 1.5513          |
| -         | 38B2        | 1.5515          |
| -         | 23MnB4      | 1.5535          |
| -         | 30MnVS6     | 1.1302          |
| 17Cr3     | 17Cr3       | 1.7016          |
| 34Cr4     | 34Cr4       | 1.7033          |
| 41Cr4     | 41Cr4       | 1.7035          |
| 16MnCr5   | 16MnCr5     | 1.7131          |
| 34CrMo4   | 34CrMo4     | 1.7220          |
| 42CrMo4   | 42CrMo4     | 1.7225          |
| 40CrMoV47 | 40CrMoV4-6  | 1.7711          |
| 21NiCrMo2 | 20NiCrMo2-2 | 1.6523          |
| 34CrNiMo6 | 34CrNiMo6   | 1.6582          |
| -         | 30MnB4      | 1.5526          |
| CK60      | C60S        | 1.1221          |
| CK67      | C67S        | 1.1231          |
| -         | 32CrB4      | 1.7076          |
| -         | 36CrB4      | 1.7077          |
| 50CrV4    | 51CrV4      | 1.8159          |

### Types

| DIN 1654/10.89 | EN 10263/02.02 |  |
|----------------|----------------|--|
| K              | +U+C           | cold drawn   |
| K+GKZ          | +U+C+AC        | cold drawn + annealed on spheroidised carbide  |
| GKZ+K          | +AC+C          | annealed on spheroidised carbide + cold drawn  |
| K+GKZ+K        | +U+C+AC+LC     | cold drawn + annealed on spheroidised carbide + light cold second drawing                                    |
| GKZ+K+GKZ      | +AC+C+AC       | annealed on spheroidised carbide + cold drawn + annealed on spheroidised carbide                             |
| GKZ+K+GKZ+K    | +AC+C+AC+LC    | annealed on spheroidised carbide + cold drawn + annealed on spheroidised carbide + light cold second drawing |

### Dimensional range

Standard dimensions are  
0.50 mm - 42.0 mm

### Diameter tolerances

Tightest diameter tolerances  
EN 10278 (h8, h9, h10, h11)

### Surface

- » witeco® - surface technology
- » Phosphate-free
- » Phosphated
- » Finally phosphate coated, soap or lime coating
- » Bright drawn

### Quality management

ISO 9001  
ISO 14001  
EMAS III  
IATF 16949  
ISO 17025  
ISO 45001  
ISO 50001  
For detailed information regarding our certifications visit our webpage  
[www.voestalpine.com/wire](http://www.voestalpine.com/wire)

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ONE STEP AHEAD.