

# 14MoV6-3

## Creep-resistant alloy steel · Material no. 1.7715

14MoV6-3 is a molybdenum-vanadium creep-resistant steel with good creep strength – for steam lines, superheaters and creep-resistant bolting.

|                               |                                          |                                           |                                  |
|-------------------------------|------------------------------------------|-------------------------------------------|----------------------------------|
| <b>1.7715</b><br>MATERIAL NO. | <b>≥ 320 MPa</b><br>YIELD STRENGTH RP0.2 | <b>460–610 MPa</b><br>TENSILE STRENGTH RM | <b>~ 565 °C</b><br>SERVICE TEMP. |
|-------------------------------|------------------------------------------|-------------------------------------------|----------------------------------|

### Application

- Steam and live-steam lines
- Superheater tubes
- Creep-resistant studs and bolts

### Chemical composition (typical, wt.-%, per EN)

| Element | Content (%) |
|---------|-------------|
| C       | 0.10–0.18   |
| Si      | ≤ 0.35      |
| Mn      | 0.40–0.70   |
| Cr      | 0.30–0.60   |
| Mo      | 0.50–0.70   |
| V       | 0.22–0.32   |

### Mechanical properties (typical at RT, per EN)

| Property             | Value       |
|----------------------|-------------|
| Yield strength Rp0.2 | ≥ 320 MPa   |
| Tensile strength Rm  | 460–610 MPa |
| Elongation A         | ≥ 20 %      |
| Impact energy KV     | ≥ 40 J      |

### Standards & supply

| Topic     | Detail     |
|-----------|------------|
| Standards | EN 10216-2 |

| Topic                | Detail                                                                        |
|----------------------|-------------------------------------------------------------------------------|
| ASME/ASTM equivalent | ~ ASTM A335 P24 (verwandt)                                                    |
| Short name / aka     | Mo-V-Stahl · warmfest                                                         |
| Product forms        | Pipes, flanges, fittings – seamless/welded, EN 10204 3.1/3.2 mill certificate |

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All data are typical values per the relevant EN standards for first orientation – without warranty. The applicable standard and the mill certificate of the delivery are decisive.