

| 50HS (1.5026) | stock sizes [mm] |
|-----------------|---|
| sheets | from 0.5 mm to 60 mm thickness |
| bands | 0.5 and 0.8 mm thickness; in various widths |
| round bars | from Φ 20 mm to Φ 300 mm diameter |
| flat bars | from 40 to 120 mm width and from 6 to 40 mm thickness |

Description:

Chromium silicon spring steel;

Application:

Flat springs, leaf springs, coil and plate spring, torsion bars,

Chemical composition [%]

| C | Mn | Si | P | S | Cr | Ni | Mo | W | V | Co | Cu |
|-----------|---------|---------|----------|----------|---------|---------|----|---|---|----|----------|
| 0,45-0,55 | 0,3-0,6 | 0,8-1,2 | max 0,03 | max 0,03 | 0,9-1,2 | max 0,4 | - | - | - | - | max 0,25 |

Equivalents

| PN | W. nr | EN | AISI | Russia (GOST) | Other |
|------|-------|----|------|---------------|-------|
| 50HS | - | - | - | - | - |

Processes

| | | |
|-----------|-----|----------------------|
| welding | NO | |
| forging | YES | |
| rolling | YES | |
| nitriding | NO | |
| hardening | YES | temp. 840 - 860 [°C] |
| tempering | YES | temp. 500 - 540 [°C] |

Hardness

| | |
|-----------------|----------|
| after softening | 270 HB |
| Rm | 1320 MPa |
| Re | 1180 MPa |