

51CrV4

W.Nr. 1.8159

General size range Ø 16 – 1000 mm

| | | | | | |
|----------------------|---------------------|--------------------|---------------------|--------------------|--------------------|
| Chemical composition | C=0,47-0,55 | Si=max.0,40 | Mn=0,70-1,10 | P=max.0,035 | S=max.0,035 |
| | Cr=0,90-1,20 | V=0,10-0,25 | Al=min.0,020 | Cu=max.0,30 | |

| | | | | | |
|-------------------------------------|---------------|---------------|--------------|----------------|--------------|
| Grade equivalents Similar grades | 735M50 | 50CrVA | 51CV4 | SUP 10 | 15260 |
| | BS | GB | AFNOR | JIS | CSN |
| | 6150 | 50CrV4 | 2230 | 50ChGFA | |
| | SAE | UNI | SS | GOST | |

| | | | | |
|-----------------------------|------------------------|----------------|-------------------|---------------------|
| Hot rolled Ø 16–310 mm | Tolerances | EN 10060 | or +/- 1,3% of dN | or specific tol. |
| | Lengths | 6 m +200/-0 mm | or 3 – 6 m | or specific lengths |
| | Heat treatment | +A EN 10083-3 | or +QT EN 10083-3 | |
| | Surface defects | EN 10221/B | or max. 1,5% | or specific value |
| | US test | SEP 1921 3C/c | or EN 10308 | or specific FBH eq. |

| | | | | |
|---------------------------------|------------------------|-----------------|---------------------|--|
| Forged black Ø 250–1000 mm | Tolerances | DIN 7527/6 | or specific tol. | |
| | Lengths | 3 – 6 m | or specific lengths | |
| | Heat treatment | +A max. 248 HB | or +QT EN 10250-3 | |
| | Surface defects | max. ½ the tol. | or specific depth | |
| | US test | SEP 1921 3C/c | or specific FBH eq. | |

| | | | | |
|-------------------------|------------------------|----------------|---------------------|------------------|
| Peeled Ø 16–100 mm | Tolerances | EN 10278 h9 | or EN 10278 h11 | or specific tol. |
| | Lengths | 6 m +200/-0 mm | or specific lengths | |
| | Heat treatment | +A h9/ h11 | or +QT h11 | |
| | Surface defects | max. 0,2 mm | or specific depth | |
| | US test | SEP 1921 3C/c | or specific FBH eq. | |

| | | | | | |
|---------------------------------|------------------------|------------------|---------------------|-------------|------------------|
| Forged turned Ø 250–850 mm | Tolerances | +3/-0 mm | or +4/-0 mm | or +5/-0 mm | or specific tol. |
| | Lengths | 3 – 6 m | or specific lengths | | |
| | Heat treatment | +A max. 248 HB | or +QT EN 10250-3 | | |
| | Surface defects | technically free | or specific depth | | |
| | US test | SEP 1921 3C/c | or specific FBH eq. | | |

| | |
|--------------------------|--|
| Other available products | squares- flats-hexagons rolled, squares-hexagons cold drawn, squares-flats forged, squares- flats forged and milled, square billets rolled, square billets CC cast |
|--------------------------|--|

| | |
|-------------------------|---|
| Mill's test certificate | EN 10204/3.1 with all relevant data reg. chem. composition, mech. properties and results of testing |
|-------------------------|---|

- supply range file - issued: 20.02.2009 rev. 1