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OIL HARDENED AND TEMPERED SPRING STEEL WIRE TO EN 10270-2: 2001. CHEMICAL COMPOSITION

| Grade | C | Si | Mn ^a | P max. | S max. | Cu Max. | Cr | V |
|--------|-----------|-----------|-----------------|--------|--------|---------|--------------|-----------|
| VDC | 0.60-0.75 | 0.15-0.30 | 0.50-1.00 | 0.020 | 0.020 | 0.06 | ^b | 0.15-0.25 |
| VDCrV | 0.62-0.72 | 0.15-0.30 | 0.50-0.90 | 0.025 | 0.020 | 0.06 | 0.40-0.60 | |
| VDSiCr | 0.50-0.60 | 1.20-1.60 | 0.50-0.90 | 0.025 | 0.020 | 0.06 | 0.50-0.80 | |
| TDC | 0.60-0.75 | 0.10-0.35 | 0.50-1.20 | 0.020 | 0.020 | 0.10 | ^b | 0.15-0.25 |
| TDCrV | 0.62-0.72 | 0.15-0.30 | 0.50-0.90 | 0.025 | 0.020 | 0.10 | 0.40-0.60 | |
| TDSiCr | 0.50-0.60 | 1.20-1.60 | 0.50-0.90 | 0.025 | 0.020 | 0.10 | 0.50-0.80 | |
| FDC | 0.60-0.75 | 0.10-0.35 | 0.50-1.20 | 0.030 | 0.025 | 0.12 | ^b | 0.15-0.25 |
| FDCrV | 0.62-0.72 | 0.15-0.30 | 0.50-0.90 | 0.030 | 0.025 | 0.12 | 0.40-0.60 | |
| FDSiCr | 0.50-0.60 | 1.20-1.60 | 0.50-0.90 | 0.030 | 0.025 | 0.12 | 0.50-0.80 | |

^a Manganese may be ordered with restricted range, but with a minimum range of 0.20 %

^b For heavy wire diameter (above 8.5 mm) chromium may be added up to 0.30 % for proper through hardening.