

Material type

**Metal**

Material name

**Tool steel A2 | 1.2363 | X100CrMoV5-1- Annealed state**

Alternative names

**1.2363, X100CrMoV5**

Process compatibility

**CNC machining****Mechanical properties**

Ultimate tensile strength	670 - 710 MPa
Yield strength	345 - 350 MPa
Young's modulus (modulus of elasticity)	190 GPa
Elongation at break	21 %

**Thermal properties**

Maximum service temperature	195 - 245 °C
Thermal expansion coefficient	10.5 - 11 10 <sup>-6</sup> /°C
Thermal conductivity	36.1 - 39 W/(m·°C)

**Post treatments**

Post-Processing	Hardening & Annealing
Anodizing compatibility	Not suitable

**Physical properties**

Magnetism	Magnetic
Weldability	Moderate

**Electrical properties**

Electrical resistivity	40.7 - 56.2 μΩ*cm
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**Common applications**

Cutting & Shearing tools
Cold-forming dies
Die casting and molding dies

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