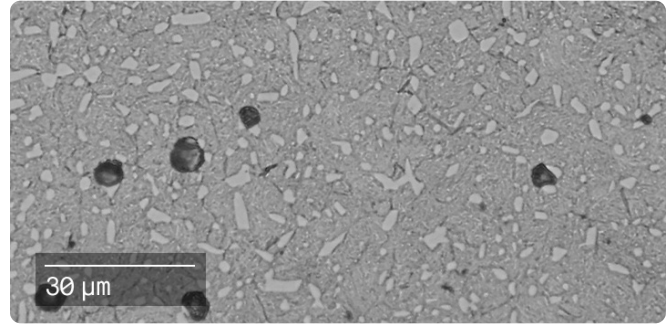


[Material Data Sheet]

D2

Corrosion Resistant Tool Steel


COMPOSITION %

Fe	Balance
Cr	11.00 – 13.00
C	1.40 – 1.60
Mo	0.70 – 1.20
V	0.00 – 1.10
Mn	0.00 – 0.60
Si	0.00 – 0.60
Ni	0.00 – 0.30
Cu	0.00 – 0.25
P	0.00 – 0.03
S	0.00 – 0.03

OTHER STANDARD DESIGNATIONS ¹

UNS T30402

AMTS A681

DIN 1.2379

MECHANICAL PROPERTIES

	Standard	Studio System 2 ² After quench and temper
Transverse Rupture Strength (GPa)	ASTM B528	3.1
Hardness (HRC)	ASTM E18	56.5
Density	g/cm ³	7.53

ATTRIBUTES & APPLICATIONS

- Excellent wear resistance, toughness coupled with corrosion resistance
- Good flexibility through heat treatment
- Conformally cooled cores and cavities
- Tool components for press & sintering powder metallurgy (punches & dies)
- Shear cutters
- Stamping die tool members

1. Listed designations are for reference purposes only. Composition and mechanical properties may vary.

2. Heat treated samples were solutionized at 1025 °C for 30 minutes, air cooled, and then double tempered at 450 °C for 1 hour per temper.

End-use material performance is impacted (+/-) by certain factors including but not limited to part geometry and design, application and evaluation conditions, etc. Hardness, TRS and density data reported are mean values minus 1 sigma.