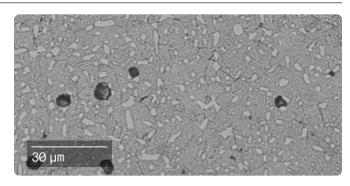


[Material Data Sheet]

## D2Corrosion ResistantTool Steel



Balance
11.00 – 13.00
1.40 – 1.60
0.70 - 1.20
0.00 – 1.10
0.00 - 0.60
0.00 - 0.60
0.00 - 0.30
0.00 - 0.25
0.00 - 0.03
0.00 - 0.03

IECHANICAL PROPERTIES		
	Standard	Studio System 2 <sup>2</sup> After quench and temper
ompressive Yield Strength - xy (MPa)	ASTM E9	1840
ung's Modulus - xy (GPa)	ASTM E9	205
ansverse Rupture Strength (GPa)	ASTM B528	3.1
ardness (HRC)	ASTM E18	56.5
ensity (g/cc)	ASTM B311	7.53

OTHER STANDARD DESIGNATIONS 1	
UNS T30402	
AMTS A681	
DIN 1.2379	

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	

 $<sup>1. \</sup> Listed \ designations \ are for \ reference \ purposes \ only. \ Composition \ and \ mechanical \ properties \ may \ vary.$ 

<sup>2.</sup> 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.