



PROPERTIES GUIDE

AISI Classification	Quenching Medium	Wear Resistance	Toughness	Resistance to Size Change	Safety in Hardening	Machinability
Carbon Tool Steels						
W-1	Water	Good	Good	Fair	Fair	Excellent
Oil & Air Hardening Die Steels						
O-1	Oil	Good	Good	Good	Good	Very Good
O-6	Oil	Very Good	Good	Good	Good	Best
A-10	Air	Very Good	Good	Excellent	Very Good	Very Good
A-2	Air	Very Good	Good	Very Good	Very Good	Good
D-2	Air	Best	Good	Best	Best	Fair
Shock Resisting Steels						
L-6	Oil	Good	Good	Good	Good	Very Good
S-7	Air	Good	Best	Very Good	Very Good	Very Good
S-5	Oil	Fair	Very Good	Good	Good	Good
Hot Work Steel						
H-13	Oil or Air	Good	Good	Very Good	Very Good	Good
High Speed Steels						
T-1	Oil or Air	Very Good	Good	Very Good	Very Good	Good
M-2	Oil or Air	Very Good	Good	Very Good	Very Good	Good
M-4	Oil or Air	Excellent	Good	Very Good	Very Good	Good