

DEXITE™ #14 Oil Hardening, Non-Deforming Tool Steel

Dexite #14 is an oil hardening, non-deforming die steel which offers a good combination of shock resistance and wear resistance. Its ease of heat treatment and safety make this an excellent general purpose tool room steel. (thermal treatment required)

Consider *Dexite #14* as a suitable upgrade for O-1, L-6, or 52100 tool steels.

Advantages

MACHINABILITY

TOUGHNESS

GOOD NON-DEFORMING PROPERTIES

GOOD WEAR RESISTANCE

GOOD DEEP HARDENING CHARACTERISTICS

Thermal Treatment Summary*

Annealing - Vacuum furnace or pack in sealed container. Heat slowly to 1425°F / 1450°F. Hold for 1 hour per inch of thickness. Cool slowly in furnace. Expected hardness is 212 BHN.

Hardening - Heat slowly to 1750°F / 1500°F. Hold for uniformity. Oil quench. Pre-heat to 1200°F/1250°F. Cool slowly. At 125°F/150°F begin tempering. Do not allow to cool to ambient room temperature.

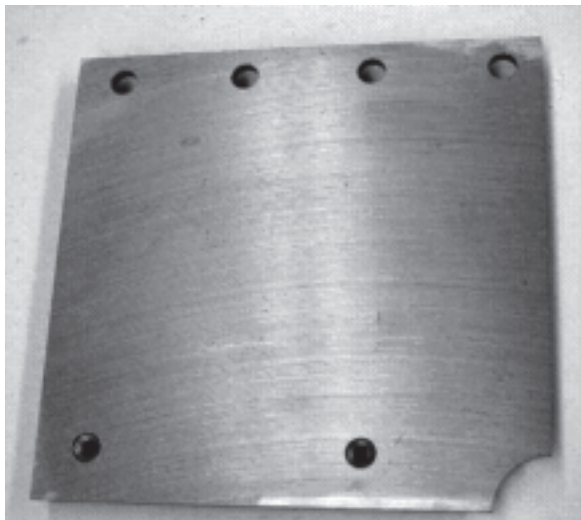
Tempering - Temper immediately after quenching. Hold at tempering temperature for no less than 2 hours. Tool and punches are normally tempered at 350°F/400°F for maximum hardness.

Tempering Chart

- 800°F typical hardness Rockwell 50 "C".
- 1000°F typical hardness Rockwell 44 "C".
- 1200°F typical hardness Rockwell 30 "C".

*Above values are typical and are not guaranteed.

Past Protected Trade Name Of Pyramid Steel Company – Pyr-Oil-Die™



Typical Applications

Blanking Dies	Bushings	Shear Blades
Punching Dies	Cam Rollers	Gears
Cutting Dies	Chuck Jaws	Knives
Drawing Dies	Collets	Swages
Extrusion Dies	Backer Plates	Vise Jaws
Forming Dies	Piston Rings	Drills
Stamping Dies	Planer Tools	Die Blocks
Boring Tools	Reamers	Threading Dies

Available Sizes*

Rounds – 1/2" to 16"
Squares – 1/2" to 4-1/2"
Flats – 1/4" to 6" thick and 1/2" to 12" wide

*Modified analysis for certain size configurations.

Stock Lengths

10 / 12 Ft Random Lengths
Custom Cut to Lengths

Surface Condition Pre-Machined (As Supplied)

Ground Top and Bottom (+.015"/+.035" oversize)
Sides Saw Cut (+.125" oversize)
Length Saw Cut (+.250" oversize)