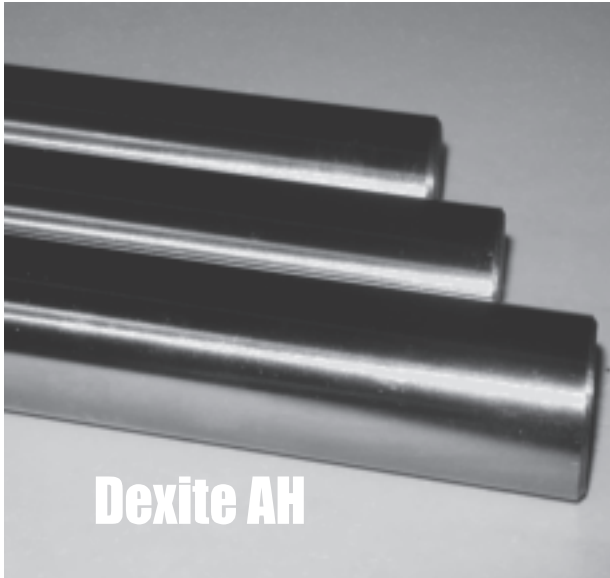


DEXITE™ AH Air Hardening, Non-Deforming Tool Steel



Typical Applications

Blanking Dies	Threading Dies
Punching Dies	Gages
Cutting Dies	Bending Dies
Forming Dies	Trimmer Dies

Available Sizes*

Rounds – 1/2" to 10"
Squares – 1/2" to 5"
Flats – 1/4" to 8" 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)

Dexite # AH tool steel offers wear resistance, combined with good deep hardening characteristics. Its ability to show low distortion or movement in heat treatment makes this material an excellent product for many tool room applications where size stability is important.

*Consider **Dexite # AH** as a suitable upgrade when A-2 tool steel is called out for on drawings and prints.*

Advantages

MACHINABILITY

HIGH COMPRESSIVE STRENGTH

GOOD NON-DEFORMING PROPERTIES

WEAR RESISTANCE

GOOD DEEP HARDENING CHARACTERISTICS

Thermal Treatment Summary*

Annealing – Generally furnished annealed. Raise to 1550°F slowly, not to exceed 400°F/hour. Hold at temperature one hour per inch of greatest cross section (2 hour min.) Cool slowly in furnace. Do not exceed a cooling rate of 50°F/hour to 1000°F. Cool to room temperature in furnace or air; 235 BHN max.

Forging – Pre-heat at 1250°F, then to 2000°F stop at 1700°F, cool slowly.

Hardening – 1725°F/1775°F, air quench to 150°F.

Preheating – 1150°F /1250°F, raise temperature slowly, not to exceed 400°F/hour, then to 1300°F / 1400°F.

Tempering – Temper immediately. Hold one hour per inch of greatest cross section (2 hour minimum).

– 350°F expected hardness Rockwell 62 "C".

– 900°F expected hardness Rockwell 48 "C".

*Above values are typical and are not guaranteed.

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