

DEXITE™ Super Shock

Shock Resistant, Non-Deforming, Tool Steel

Dexite Super Shock is the new trade name for Dexite AH Modified. **Dexite Super Shock** shows a low degree of distortion during heat treatment due to its chemical make-up. In many instances the chemical composition can be a significant factor in thermal response, machinability, and overall tool performance. Consider **Dexite Super Shock** as a suitable upgrade for S-7 type tool steel.

Advantages

- CLEAN STEEL TECHNOLOGY
- EXCELLENT SHOCK RESISTANCE
- EXCELLENT TOUGHNESS
- GOOD NON-DEFORMING PROPERTIES

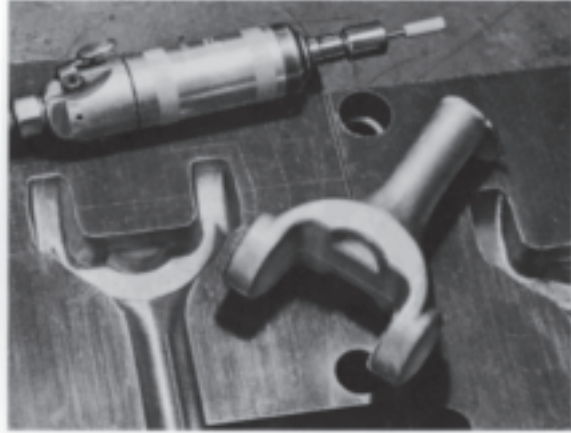
Thermal Treatment Summary (typ. values)

Annealing – Generally furnished annealed. Bring part up slowly (400°F/hour) to 1550°F, and hold at temperature for at least one hour/inch of greatest cross section. Slow cool in the furnace (50°F/hour) to 1000°F. Then allow cooling to continue in the furnace or still air.

Hardening – Bring up to pre-heat temperature at a rate not to exceed 400°F/hour. For large and intricate items, heat to a uniform 1150°F/1250°F, then elevate temperature to 1300°F/1400°F and hold for uniformity. Smaller and less intricate pieces may skip the first step and proceed right to 1300°F/1400°F. Take slowly to the hardening temperature of 1725°F. Hold at temperature (furnace or salt) for 30 minutes for the first inch of thickness, allow an additional 15 minutes for each additional inch of thickness.

Quenching – In air, pressurized gas, or warm oil to 150°F/125°F. Larger sections should be quenched in oil. If using an oil quench, then quench until black (900°F), cool in still air to 150°F/125°F.

Tempering – Immediately after quench, hold at temp. for 1 hour/inch of greatest cross section (2hrs min.), then air cool to room temperature. Optimum tempering temp. for cold work tools is 400°F. Resulting hardness will be approximately 57 Rockwell "C".



Typical Applications

Drills	Rivet Busters
Reamers	Swaging Dies
Threading Dies	Trimming Dies
Form Cutters	Pipe Cutter Wheels
Punching Dies	Bending Dies
Shear Blades	Forming Dies
Boilermaker Tools	Piercing Dies
Pneumatic Chisels	Blacksmith Tools

Available Sizes*

Rounds – 1/4" to 10"
Squares – 1/2" to 5"
Flats – 1/4" to 8" thick and 1" to 12" wide

*Modified analysis for certain size configurations.

Stock Lengths

10 / 12 Ft Random Lengths
Custom Cut Lengths

Surface Condition Pre-Machined (As Supplied)

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

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