

Krome Die™

High Wear, Air Hardening Tool Steel

Krome Die is the “*least deforming*” of all general purpose die steels. Because of its high chrome and high carbon, **Krome Die**, is the ideal material for many applications where abrasion is a key factor.

Krome Die should be considered as an upgrade when your specifications call out for D-2 type tool steel.

(Past Protected Trade Name of Ludlow Steel Company – Atmos™ #12)



Advantages

- **100% Decarb Free** (Pre-Machined) – all material is offered ground and oversized for clean-up.
- **Excellent Machinability** – can be machined readily in the fully annealed condition.
- **Heat Treatable** – able to accept thermal treatment with minimal size change.
- **Wear Resistant** – because of its high carbon and high chrome content.

Typical Surface Condition (Pre-Machined)

Ground Top and Bottom (+.015”/+.035” oversize)
Sides Saw Cut (+1/8” oversize)
Length Saw Cut (+1/4” oversize)

Typical Applications

Shear Blades	Punches	Bending Dies
Shredding Knives	Header Dies	Blanking Dies
Wire Cutters	Roll Dies	

Thermal Treatment Summary*

Annealing – Generally furnished annealed. 1600°F/1650°F, furnace cool @ 40°F/hour, 217/255 BHN.

Forging – Heat slowly to 1900°F/2000°F, stop at 1650°F, cool slowly.

Hardening – Pre-heat slowly to 1200°F/1300°F, then to hardening temperature of 1825°F /1850°F, air quench to 150°F. Pack in inert material to retard the effects of de-carb. Typical work hardness Rockwell 58/64 “C”; as quenched surface hardness Rockwell 61/64 “C”.

Preheating – 1200°F /1300°F, prior to hardening.

Tempering – 350°F/450°F typical hardness Rockwell 63 “C”.
– 500°F typical hardness Rockwell 59 “C”.
– 800°F typical hardness Rockwell 57 “C”.

(Minimum time at tempering temperature is one hour per inch of thickness, even on thin sections. Heavier sections should be held a temperature sufficient for uniformity of temperature.) *Above values are typical and are not guaranteed.

Sizes Available*



Rounds
1/2” to 12”



Squares
1/2” to 6”



Flats
1/4” to 6” thick
3/4” to 12” wide

Please call for all **METRIC** requirements.

Lengths Available

Custom Cut To Lengths
10 Ft to 12 Ft Random Lengths

