

## EDRO #20™ Free Machining Carbon Steel

PINK



## General

Typical analysis %	C	MN	P	S	SI
	.14/.22	1.00/1.30	0.040max.	.24/.33	.10/.40
Delivery condition	149 H.B.				
Color code	Pink				

## Properties

**PHYSICAL DATA**

These are typical mechanical properties for a 1" thick plate in the as rolled condition.

Tensile Strength - psi	72,000
Yield Strength - psi	48,000
Elongation in 2"	30%
Reduction of Area	60%

EDRO #20™ is a mild carbon steel stocked in as rolled condition.

EDRO #20™ is characterized by:

- Excellent machinability
- Responds to surface hardening
- Ready welded
- Good dimensional stability
- Manufactured in the USA

**HARDENING**

EDRO #20™ responds to any of the standard carburizing and subsequent hardening methods used for such grades as 1018.

Normalize 1650° - 1750°F

Anneal 1550° - 1600°F

Stress Relieve 1250° - 1300°F

Carburize 1650° - 1700°F

Harden 1450° - 1500°F (water)

**MACHINABILITY**

EDRO #20™ machines at speeds up to 40% higher than other steels with comparable carbon content. EDRO #20™ is machined at cutting speeds of up to 170 surface feet per minute.

## Applications

- Rubber molds - V Belt mold rings, gears, cams, sprockets, jigs, and fixtures