



EDRO #45™ Free Machining Carbon Steel

General

Typical analysis %	C	MN	P	S	SI
	.42/.50	1.00/1.30	0.040max.	.24/.33	.10/.40
Delivery condition	187 H.B.				
Color code	Purple				

EDRO #45™ is a medium carbon steel stocked in as rolled condition.

EDRO #45™ is characterized by:

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

Applications

- Rubber molds, short run blanking dies
- Trimming dies, slides, holders, bolsters, etc.

Properties

PHYSICAL DATA

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

Tensile Strength	96,000
Yield Strength	56,000
Elongation in 2"	20%
Reduction of Area	40%

HARDENING EDRO #45™

Normalize 1600° - 1700°F

Anneal 1450° - 1500°F

Stress Relieve 1200° - 1300°F

Carburize 1650° - 1700°F

Harden 1475 - 1550°F (oil or water)

MACHINABILITY

EDRO #45™ machines at speeds up to 40% higher than other steels with comparable carbon content. EDRO #45™ is machined at cutting speeds of up to 145 surface feet per minute.