

EDRO #45

Free Machining Carbon Steel



color code: purple

General

Typical Analysis %	C	MN	P	S	SI
	0.42/0.50	1.00/1.30	0.040 max	0.24/0.33	0.1/0.40
Delivery condition	187 HB				
Color code	Purple				

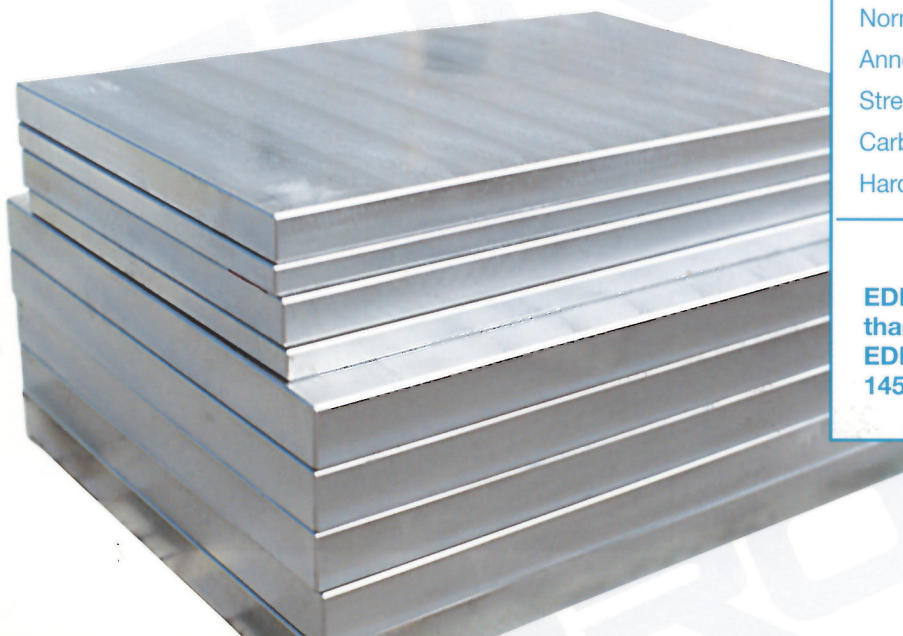
Applications

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

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



PROPERTIES

PHYSICAL DATA

These are typical mechanical properties for 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

Normalized 1600° – 1700°F
Anneal 1450° – 1500°F
Stress Relieve 1200° – 1300°
Carburized 1650° – 1700°F
Harden 1475° – 1550°F (oil)

MACHINABILITY

EDRO #45™ machines at speed 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.