

Mangalloy steel is an 11-14% manganese steel that performs best in extreme impact applications. Under shock and impact it nearly triples its initial surface hardness, retains its interior toughness, and acquires a high polish. These features, combined with Mangalloy's high tensile strength, make it an ideal material for heavy impact and abrasive service. Mangalloy steel is also non-magnetic.

CHEMICAL ANALYSIS:

Carbon.....	1.13
Manganese	13.00
Sulphur	0.003
Phosphorus.....	0.017
Silicon	0.38

PHYSICAL PROPERTIES:

Tensile	145,000 psi.
Yield	55,000 psi.
BHN (Before work hardening)	200
BHN (After work hardening)	550

STOCK SIZES:

Thicknesses: 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4",
1-1/2", 2", 3"
Widths: 48", 60", 72", 96"
Lengths: 120", 144", 240"

COLOR CODE:

Green

CUTTING:

Recommend using plasma or laser, but can be flame cut with oxygen acetylene.

FORMING:

Cold blending and cold roll forming can be performed.

MACHINING:

Due to Mangalloy's work hardening feature, special tooling such as carbide tipped or high speed cobalt tools are required.

WELDING:

Preheating is not advised. When welding Mangalloy to manganese use manganese welding rod, such as McKay Hardalloy 118. When welding Mangalloy to a dissimilar metal use 308, 309 or 310 stainless steel coated electrodes.



APPLICATIONS

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|-------------------------------------|------------------------|
| Shot Blast Equipment Liners | Crusher Liners |
| Abrasive, Non-Magnetic Applications | Crusher Hammers |
| RR Bolster Plates | Stock Tubes |
| Magnetic Drum Liners | Crusher Breaker Plates |