

PREMAR 410



Stainless Steel

Precision Marshall's Premar 410 is a 12% chromium martensitic stainless steel with good corrosion resistance along with high strength and hardness. Meets ASTM A240.

Typical Analysis

Carbon	.13
Manganese	0.05
Silicon	0.40
Chromium	12

Applications

Premar 410 applications include bolts, screws, bushings, nuts, shafts, pumps, and valves.

Annealing

Heat slowly and uniformly to 1500-1650°F, cool to 1100°F in furnace and then air cool.

Heat Treating

Premar 410 can be heat treated by oil quenching or air cooling from 1700°F to 1850°F.

Tempering

Tempering should be at the proper temperature to achieve the desired hardness. Tempering between 1100°F and 1400°F should be avoided due to a decrease in corrosion resistance and toughness.

Tempering Temperature ((°F)	Rockwell Hardness (RC)
400	42
600	42
800	43
1000	34
1100	25
1200	20

Note: Variations in section size, heating rate, soak time, quench rate and tempering will cause deviations from the above values. Precision Marshall should be consulted for specific applications.

PREMAR 410

The following additional products are available through our authorized distributors.

DELUXE PLATES

MARSHALLOY MQ®/FM
 MARSHALLOY™ STD 4142
 MARSHALLOY™ 4140
 (Annealed)
 PRESCO O-1
 AIRTRUE A-2
 SUPER 7 MQ® S-7
 ARISTOCRAT D-2
 FIRECHROME H-13
 SUPER 7 S-7

GROUND FLAT STOCK

PRESCO O-1
 AIRTRUE A-2
 ARISTOCRAT D-2
 SUPER 7 S-7
 NUTEC 42® 4142
 FIRECHROME H-13
 PREMAR 410
 RUETOM SPECIAL 420
 PREMAR 440C
 MARSHALLCRAT LC

DRILL ROD

WATERCRAT W-1
 OILCRAT O-1
 AIRTRUE A-2
 SUPER 7 S-7
 ARISTOCRAT D-2
 FIRECHROME H-13PH
 TRM-2 M-2
 WATERCRAT W-1 (Cold-drawn)



The Deluxe Company's Guarantee of Quality

Precision Marshall's conformance to specifications is the highest in the industry. Precision Marshall assumes complete liability for any costs directly relating to a deviation from our published specifications. Any such costs, properly documented, will be reimbursed. For more information, visit us at www.pmsteel.com.

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