

MIRRALLOY[®] FM TGP

Free Machining, Turned Ground and Polished Shafting



Available Sizes

1/4"	1-1/8"	2-1/16"	3-1/16"
5/16"	1-3/16"	2-1/4"	3-1/4"
3/8"	1-1/4"	2-5/16"	3-5/16"
7/16"	1-5/16"	2-3/8"	3-3/8"
1/2"	1-3/8"	2-7/16"	3-7/16"
9/16"	1-7/16"	2-1/2"	3-1/2"
5/8"	1-1/2"	2-9/16"	3-9/16"
11/16"	1-9/16"	2-5/8"	3-5/8"
3/4"	1-5/8"	2-11/16"	3-11/16"
13/16"	1-11/16"	2-3/4"	3-3/4"
7/8"	1-3/4"	2-13/16"	3-7/8"
15/16"	1-7/8"	2-7/8"	3-15/16"
1"	1-15/16"	2-15/16"	4"
1-1/16"	2"	3"	

Available Metric Sizes

4MM	10MM	16MM	22MM	28MM	40MM	70MM
5MM	11MM	17MM	23MM	30MM	45MM	80MM
6MM	12MM	18MM	24MM	32MM	50MM	90MM
7MM	13MM	19MM	25MM	35MM	55MM	100MM
8MM	14MM	20MM	26MM	36MM	60MM	
9MM	15MM	21MM	27MM	38MM	65MM	

Mirraloy FM exhibits significant advantages when compared to "Cold Roll" steel. Those benefits include: higher tensile and yield strength, excellent wearability and machinability characteristics. **Mirraloy FM** when compared to "Cold Roll" offers a unique chemistry, which provides a higher degree of toughness for extended service life. Hard and Soft spots, commonly found in cold roll steel, are not found in **Mirraloy FM**.

Mirraloy FM*	1045 Carbon Steel*	1018 Cold Roll Steel*
Tensile Strength ...133,000 P.S.I.	Tensile Strength ...91,000 P.S.I.	Tensile Strength ...70,000 P.S.I.
Yield Strength110,000 P.S.I.	Yield Strength77,000 P.S.I.	Yield Strength50,000 P.S.I.
Hardness260 BHN	Hardness160 BHN	Hardness130 BHN

*Based on 1/2" dia. test specimen

Typical Mechanical Properties*

Brinell Hardness	260 BHN
Tensile Strength	133,000 P.S.I.
Yield Strength	110,000 P.S.I.
Machinability	83% of Carbon Steel
Elongation	8% Min.
Reduction of Area	25% Min.

*Based on 1/2" Diameter Test Specimen

Diameter Tolerances¹

1/4" Round to 1-1/2" Round	(+.000"/-.001")
Over 1-1/2" Round to 3" Round	(+.000"/-.002")
Over 3" Round to 4" Round	(+.000"/-.003")
Over 4" Round to 7" Round	(+.000"/-.004")
Over 7" Round	Call for details

Diameter Tolerances¹

Up to 38MM Round	(+.000"/-.001")
Over 38MM Round to 80MM Round	(+.000"/-.002")
Over 80MM Round to 100MM Round	(+.000"/-.003")

¹Above tolerances are typical, if special diameter tolerance is required please contact our office

Available Lengths

10/13 Foot Random Lengths
20/26 Foot Random Lengths
Custom Cut-To-Lengths

Boxing is recommended for all surface critical bar products.

Not recommended where welding is required.