

Mirraloy™ FM TG&P

Free Machining, Turned Ground and Polished Shafting

Typical Physical Properties*

Brinell Hardness	260BHN
Tensile Strength	133,000 P.S.I.
Yield Strength	110,000 P.S.I.
Elongation	8% Min.
Reduction of Area	25% Min.
Machinability83% of carbon steel

*Based upon 1/2" Diameter Test Specimen

Available Stock Lengths

- 10 Ft to 12 Ft Random Lengths
- 20 Ft to 24 Ft Random Lengths
- Custom Cut Lengths



(Past Protected Trade Name of Ludlow Steel Company – Centrex™ FM)

Diameter Tolerances

1/4" Round to 1-1/2" Round	(+.000"/-.001")
Over 1-1/2" Round to 2-1/2" Round	(+.000"/-.0015")
Over 2-1/2" Round to 3" Round	(+.000"/-.002")
Over 3" Round to 4" Round	(+.000"/-.003")

Other Free Machining Products

For **METRIC SHAFTING** equivalents of this product, please see page 22.

For all **KEYED SHAFTING** requirements, please turn to page 23.

Sizes Available*

1/4"	7/8"	1-7/16"	2"	2-3/4"	3-1/2"
5/16"	15/16"	1-1/2"	2-1/16"	2-13/16"	3-5/8"
3/8"	1"	1-9/16"	2-3/16"	2-7/8"	3-11/16"
7/16"	1-1/6"	1-5/8"	2-1/4"	2-15/16"	3-13/16"
1/2"	1-1/8"	1-11/16"	2-3/8"	3"	3-15/16"
9/16"	1-3/16"	1-3/4"	2-7/16"	3-1/8"	4"
5/8"	1-1/4"	1-13/16"	2-1/2"	3-1/4"	
11/16"	1-5/16"	1-7/8"	2-5/8"	3-3/8"	
3/4"	1-3/8"	1-15/16"	2-11/16"	3-7/16"	

Not recommended where welding is required.

*Cold finish bar product is available. Please call our Cleveland office for details.

Mirraloy FM TG&P vs. Cold Roll (1018/1045)

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	Cold Roll		
Tensile Strength	133,000 P.S.I.	Tensile Strength	70,000/91,000 P.S.I.
Yield Strength	110,000 P.S.I.	Yield Strength	50,000/77,000 P.S.I.
Hardness	260 BHN	Hardness	130/160 BHN

Information is based upon 1/2" Diameter Test Specimens