



Advantages

Sheffield #20 Metric FM is designed for ease of machining with high speed automatic equipment, such as screw machinery. Less effort in machining, so you can be up and running quickly.

Sheffield #20 Metric FM should be considered as an upgrade when drawings or prints specify; 1018, 1045, 12L14, 1141, and 1144.

Sheffield #20 Metric FM offers significant increase in physical properties when compared to “Cold Roll” steels, such as (1045/1018). Example: The tensile, yield, and hardness of 1045 is roughly 33% less. The tensile, yield, and hardness of 1018 is 50% less.

1018 and 1045 carbon steels do not offer consistency. Hard and soft spots are common occurrence during machining.

Neither grade offers any significant resistance to wear, impact, and abrasion – all concerns typical to maintenance applications. Both lack alloying elements for improved toughness in service.

Typical surface finish of Sheffield #20 Metric FM is 10/16 RMS.

This material is offered in 10 / 12 Ft Random Lengths and in Custom Cut Lengths (Product of the Bar).

Sheffield #20 Metric FM is not recommended where welding is required.

Boxing recommended.

Past Protected Trade Name Of Pyramid Steel Company – Silvaloy™ Metric FM TG&P

Typical Physical Properties*

Hardness.....	260 BHN
Tensile Strength.....	135,000 P.S.I.
Yield Strength.....	113,000 P.S.I.
Machinability.....	85% of carbon steel

*Based on ½” Diameter Specimen

Available Sizes

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

Typical Diameter Tolerances

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