

Material Grade: **070M20**
 Material Condition(s): **Untreated / Normalised / Drawn**
 Surface Finish: **As rolled / As forged / Bright drawn / Bright turned**

Associated Standard: **BS970**

Description:

A general purpose mild steel for welded or riveted structures, forgings, machined parts, hot pressing, etc. This steel will withstand a moderate amount of cold deformation and only offers low strength, but good machinability.

Typical applications: Shafts, staybolts, brake, pedal levers, gear selectors, clutch and brake housing, motor car wheel hubs, various motorcycle and scooter lug stampings, valve gate and body forgings, wagon buffers, commutator screws, cage suspensions, general haulage gear

1. STEELMAKING

	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>S</u>	<u>P</u>	<u>Cr*</u>	<u>Ni*</u>	<u>Mo*</u>
Min	0.16	0.10	0.50					
Max	0.24	0.40	0.90	0.05	0.05	0.30	0.40	0.15

(* denotes residual element)

2. TYPICAL MECHANICAL PROPERTIES

Test type	Tensile and hardness test (at room temperature)					
	Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness
Unit	N/mm ²	N/mm ²	N/mm ²	%	%	HB
Normalized	Min	215	430	21		126
	Max					179
Drawn	Min	420	530	12		
	Max					