

Material Grade: **080A42**
Material Condition(s): **Untreated / Normalised**
Surface Finish: **As rolled / As forged / Bright turned**

Associated Standard: **BS970**

Description:

A medium carbon steel capable of achieving moderate tensile strengths by normalizing or quenching and tempering. Machinability similar to that of mild steel can be expected, however weldability is reduced.

Typical applications: **Axles, spindles, studs and many automotive and general engineering components**

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	0.40	0.10	0.70					
Max	0.45	0.40	0.90	0.05	0.05	0.30	0.40	0.15

(* denotes residual element)

2. MECHANICAL PROPERTIES - N/A (material is produced to chemical composition only)