


# TECHNICAL GUIDE

## 606M36T / EN16MT

### Steel Description

606M36T / EN16MT is a low alloy manganese molybdenum steel which is supplied as bright drawn and in the hardened and tempered "T" condition, resulting in good mechanical properties. 606M36T / EN16MT is a sulphurised alloy steel, resulting in excellent machining speeds and with ease of chipping, gives a much better surface finish and extended tool life. 606M36T / EN16MT also has excellent ductility and shock resistance characteristics and is suitable for the manufacture of crankshafts, conrods and shafts and components involving intricate machining. See properties below and our hardness comparison table under the Useful Information section on our website. We can also supply 605M36T / EN16T where machinability is not quite so critical on which we also have a technical guide.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN16MT	606M36T		Bright drawn semi freecutting manganese molybdenum steel

CHEMICAL ANALYSIS	
Car	0.32 / 0.40
Sil	0.10 / 0.40
Mang	1.30 / 1.70
Phos	0.035 max
Sul	0.15 / 0.25
Moly	0.22 / 0.30

MECHANICAL PROPERTIES	
Tensile Strength N/MM2 Min Rm	850 / 1000
Yield Stress N/MM2 Min Rm	700
Elongation A Min % on 5.65√SO	8
Izod Min	40
Kcv Min	-
Proof Stress 0.2% N/MM2 Min	680
Brinell Hardness	248 / 302

INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH BS 970:1991	606M36T
BRITISH BS 970:1955	EN16MT
GERMAN DIN	
FRENCH AFNOR	
SWEDISH SS	
AMERICAN SAE	
EUROPEAN STEEL NO.	
EUROPEAN STEEL NAME	
EUROPEAN STANDARD	

SIZE RANGE SUMMARY			
	Rounds	IMP	1/2" - 2.1/2" dia
		MM	16mm - 60mm dia

SEE STOCK RANGE FOR SPECIFIC SIZES.

QUICK VIEW SYSTEM	
MACHINEABILITY	90
WELDABILITY	Not recommended
HARDENABILITY	High strength up to 30mm dia
SELECTION GUIDE AND USAGE EXAMPLES	As EN16T, but more suitable for repetition machining