

EQUIVALENTS:
American: AISI 1055

British: BS970 Part 1 1983, 070M55 (EN9)

German: W. Stoff No 1.1203

COLOUR CODE:


Rolled

CHEMICAL COMPOSITION %

	C	Si	Mn	P	S
Min	0.50	0.10	0.50		
Max	0.60	0.40	0.90	0.050	0.050

MECHANICAL PROPERTIES:

Heat Treatment	Condition	Tensile Strength RM MPA	Yield Stress REMPA	RPO,2 MPA	A min on 5,65 .√So	Impact		Hardness HB	Limited Ruling Section mm
						IZOD FT.Lb	KCV Joules		
Normalise	45	700	355	-	12	-	-	201/255	63
	39	600	310	-	13	-	-	170/223	250
R	45/55	700/850	415	385	14	-	-	201/255	100
S	50/60	775/925	480	450	14	-	-	223/277	63
T	55/65	850/1000	570	555	12	-	-	248/302	19

CHARACTERISTICS:

- Carbon steel
- A 6% allowance should always be made for removal of surface defects during machining
- EN9 is weldable (but not recommended)
- Not recommended for carburising
- Heat treatment only to limited ruling section

APPLICATIONS:

Spackers
 Keys
 Cylinders
 Small gears
 Cams
 Machine tools
 Crankshafts
 Grinding balls for ball mills