

EN16 / 605M36

34CrMo4 1.7220

MATERIAL DATA SHEET

Parkside Steel

(Stockholders) Ltd

ISO 9001 | BSI FS 86692

Est. 1977 | Co. 01325509

01623 687 660

OVERVIEW

EN16 is a Cr-Mo alloy steel positioned between EN8 and EN19 in hardenability and tensile strength. Provides good through-hardening in moderate sections with better fatigue and impact properties than plain carbon EN8.

TYPICAL APPLICATIONS

- Medium duty shafts
- Gears and pinions
- Connecting rods
- Automotive components

SUPPLY & PROCESSING

Supply: Bright round bar 8-100mm. Black round bar.
Condition: Normalised. H&T; available on request.
Weldability: Fair. Preheat 175-275C.
Machinability: Good. 65-90 m/min.
Certification: 2.2 Test Report. 3.1 on request.

GRADE EQUIVALENTS

Standard	Designation
BS EN 10083-3:2006	34CrMo4 / 1.7220
BS 970:1991 (withdrawn)	605M36
AISI/SAE	4135
DIN	34CrMo4 / 1.7220
ISO	34CrMo4

CHEMICAL COMPOSITION (% by weight)

Designation	C	Si	Mn	P max	S max	Cr	Mo
605M36	0.30-0.40	0.10-0.35	0.70-1.00	0.04	0.04	0.90-1.20	0.25-0.35
34CrMo4	0.30-0.37	0.17-0.37	0.60-0.90	0.035	0.035	0.90-1.20	0.15-0.30

MECHANICAL PROPERTIES

Condition	Size (mm)	Tensile Rm (N/mm²)	Yield Re (N/mm²)	A% min
H&T; (T)	≤16 / >16-40 / >40-63	900-1100 / 800-950 / 700-850	≥700 / ≥600 / ≥500	12 / 13 / 14

Indicative values. Properties vary by section size and heat treatment condition. Confirm with Parkside Steel.

TO ORDER / GET A QUOTE Call: 01623 687 660 Email: sales@parksidesteel.uk.com Online: parksidesteel.co.uk/quote No minimum order. Same-day collection available.

PARKSIDE STEEL (STOCKHOLDERS) LTD Byron House, 4 Willow Drive Sherwood Park, Annesley Nottinghamshire NG15 0DP ISO 9001 | BSI FS 86692 | Est. 1977