

EN36C / 832M13

15NiCrMo16-5 1.6723

MATERIAL DATA SHEET

Parkside Steel

(Stockholders) Ltd

ISO 9001 | BSI FS 86692

Est. 1977 | Co. 01325509

01623 687 660

OVERVIEW

EN36C is a premium Ni-Cr-Mo case hardening steel providing the highest core toughness in the standard EN case hardening range. The Mo addition improves hardenability and core impact strength versus EN36. For the most demanding gearing applications.

TYPICAL APPLICATIONS

- Premium aerospace gearing
- Heavy-duty transmission components
- High-impact gearing
- Defence drivetrain

SUPPLY & PROCESSING

Supply: Black round bar 60-300mm.
Condition: As-rolled. Carburise and harden after machining.
Weldability: Difficult. Specialist procedure.
Machinability: Good in soft condition.
Certification: 3.1 Inspection Certificate standard.

GRADE EQUIVALENTS

Standard	Designation
BS EN 10084:2008	15NiCrMo16-5 / 1.6723
BS 970:1991 (withdrawn)	832M13
AISI/SAE	9315
DIN	15NiCrMo16-5 / 1.6723
ISO	15NiCrMo16-5

CHEMICAL COMPOSITION (% by weight)

Designation	C	Si	Mn	P max	S max	Cr	Ni	Mo
832M13	0.10–0.16	0.10–0.35	0.30–0.60	0.04	0.04	0.60–1.10	3.90–4.30	0.15–0.35
15NiCrMo16-5	0.12–0.17	0.17–0.37	0.30–0.60	0.025	0.025	0.70–1.00	3.80–4.30	0.15–0.30

MECHANICAL PROPERTIES

Condition	Core Tensile (N/mm ²)	Core Yield (N/mm ²)	Case HRC	Core HB
After case hardening	~1050	~800	60–64	~310

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.

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