EN32 Technical Datasheet

Engineering Steel



- Gears
- Spindles
- Bushes
- RollersCams

Product Description

EN32 is a case hardening steel with low tensile strength and is used in general engineering for the production of lightly stressed components. The material displays good weldability and machinability characteristics in the supplied condition and has a hard wearing surface. EN32 is classed as an unalloyed low carbon grade.

Tempering

Tempering is recommended for stress relief and maximum case toughness. Tempering range from 150-200°C.

Key features:

- Case hardening steel
- Low tensile strength
- Readily machinable & weldable

Service. Quality. Value.

For lightly stressed components

Machinability

Readily machinable

Availability

Round bar, square bar and flat bar

Weldability

Good.

Chemical Composition (weight %)							
	С	Mn	Si	Р	S		
min.	0.10	0.60	0.05				
max.	0.18	1.00	0.35	0.05	0.05		

Mechanical Properties *								
Tensile Strength N/mm ²	Elongation %	Impact Izod J	Impact KCV J					
430	18	39	35					

* blank case hardened. 29m test piece.

Technical Assistance

Our knowledgeable staff backed up by our resident team of qualified metallurgists and engineers, will be pleased to assist further on any technical topic.

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Smiths Belfast Smiths Biggleswade Smiths Birmingham Smiths Bristol Smiths Chelmsford Smiths Gateshead Smiths Horsham	0121 728 4940 0117 971 2800	Smiths Leeds Smiths Manchester Smiths Norwich Smiths Nottingham Smiths Redruth Smiths Verwood Main Office	01603 789 878	Using So 9001 Quality Management Systems CERTIFIED	UKAS TESTING 1930

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