

STEEL



**LIBERTY**

# EN36 (655M13)

A carburising steel grade

High surface hardness in the carburised condition.  
Used in high strength parts in the automotive and aerospace sector.

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## Features and benefits

- High surface strength
- High tensile strength
- Deep hardening due to nickel/chrome content
- Good toughness and fatigue resistance
- Machinability good in the annealed condition
- Good weldability in the annealed condition

## Chemical analysis

	C	Mn	Si	Cr	Ni	S	P
Min	0.12	0.30	0.10	0.60	3.00	-	-
Max	0.18	0.60	0.35	1.10	3.75	0.05	0.05

## Mechanical properties of typical specifications

Tensile Strength (MPa)	1100
Elongation	15 %
Reduction of area	50 %

## Typical applications

- High strength gearing
- Shafts
- Crankshafts
- Couplings

## Related specifications

- 655M13
- 1.5752
- SAE 3310 9310

## Technical support

We have a comprehensive technical support team available to advise on grade selection and product range to achieve the maximum benefit. Customer Technical support provide specialist advice and help with day-to-day problem solving.

Works based metallurgists and the full resources of our Steel Research and Development Laboratories are available to assist with longer-term developments.

For further information, enquiries or any technical guidance on our range of Aerospace products please contact our experts using the details below.

## LIBERTY SPECIALITY STEELS

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