

STEEL



LIBERTY

AMS 6260 / 6265 (9310)

A carburising steel with high
hardenability, core hardness,
and fatigue strength

Ideal for components with large cross-section requiring high toughness
and core strength, including heavy duty gears and shafts

MEMBER OF



Features and benefits

- Excellent tensile strength >1150MPa
- Excellent transverse properties in VAR Material
- Develops hard wear resistant case after surface treatment

Related specifications

- SAE 9310
- 299-947-032
- 299-947-302
- 199-20-005
- EMS56280

Typical applications

- Heavy duty gears for helicopters and aircraft
- Transmission parts

Chemical analysis

	C	Si	Mn	P	S	Cr	Mo	Ni	B	Cu
Min	0.07	0.15	0.40			1.00	0.08	3.00		
Max	0.13	0.35	0.70	0.015	0.015	1.40	0.15	3.50	0.001	0.35

Mechanical properties of typical specifications

Mechanical properties are AMS 6260 / 6265 (9310) limits

	Longitudinal		Transverse	
	Min	Max	Min	Max
0.2 % Proof stress (MP)	900		900	
Tensile Strength	1150		1150	
Elongation %	14		8	
Reduction of area	65		40	
Hardness HRC	36			

Supply condition and availability

- Supplied as normalised and tempered bright bar
- Stock sizes in range 18mm-250mm diameter
- Other sizes available on request

Heat treatment

- Case harden
- Quench and temper

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.

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