

STEEL



LIBERTY

(E)15CDV6

A low carbon steel combining a high yield strength with toughness and weldability

Suitable for welded assemblies requiring high mechanical properties, including roll cages, pressure vessels and suspension components

MEMBER OF



Features and benefits

- Tensile strength (1100 MPa)
- Weldable
- Good transverse properties in remelted grade
- Exceptional ductility
- Can be nitrided

Related specifications

- WL 1.7734.5
- AIR9160
- DMD172-20
- BLFF15110
- CCT303
- NCT 15-124

Typical applications

- Structural parts in Aerospace and Motorsport
- Rocket engines

Chemical analysis

	C	Si	Mn	P	S	Cr	Mo	V
Min	0.12		0.80			1.25	0.80	0.20
Max	0.18	0.20	1.10	0.02	0.015	1.50	1.0	0.30

Mechanical properties of typical specifications

Mechanical properties are (E)15CDV6 limits (Air9160)

	T1080	
	Min	Max
0.2% Proof stress (MP)	930	
Tensile Strength MPa	1080	1280
Elongation %	10	
Hardness HB	321	363

Supply condition and availability

- Supplied as bright bar
- Stock sizes in range 18mm-250mm diameter
- Other sections may be available on request

Heat treatment

Quenched from 975°C
and tempered in range 600°C - 740°C

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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