15CDV6 - Heat-Treatable Steel

Product Datasheet

Revision: SHP/15CDV6/11/2017 ...where performance matters

Chromium-Vanadium Alloy

15CDV6 is a chromium, molybdenum, vanadium heat-treatable steel with high strength after heat treatment (1080-1280 N/mm^2).

The alloy is easily welded and does not require localised heat treatment after welding. 15CDV6 combines outstanding yield strength with good toughness. In motorsport applications the alloy offers a cost-effective solution in areas where a combination of high strength and excellent weldability is required.

Chemical Composition

Weight (%)	C	N	O	Fe	Al	Sn	Zn	Mo	Si	H
Min.					5.5	1.75				
Max.	0.08	0.05	0.12	0.25	6.5	2.25	4.5	2.25	0.10	0.0125

Mechanical Properties

Condition	0.2% Proof Stress	Tensile Strength	Elongation	Hardness
1.7734.2 (Annealed)	-	-	-	197 HB
1.7734.4	550 MPA Min.	700 MPA Min.	13 % Min.	-
1.7734.5	790 MPA Min.	980-1180 MPA Min.	11 % Min.	-
1.7734.6	930 MPA Min.	1080-1250 MPA Min.	10 % Min.	-

Characteristics

- Chromium Vanadium Steel
- Easily welded
- Outstanding yield strength
- Good toughness
- Heat treatable

Applications

- Motorsport Applications
- Suspension components
- Track and push rods
- Roll cages
- Uprights and wishbones

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Smiths High Performance is a leading stockholder and supplier of high performance engineering materials to the global motorsport sector. We are supply partners in a range of specialist motorsport markets including **Formula 1, Formula E, NASCAR, MOTO GP, WEC & WRC**.

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