

32CDV13

Smiths High Performance



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Excellent Nitriding Capabilities

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The steel alloy offers excellent hardness, high impact resistance, fatigue resistance and ductility. Wear resistance also improves considerably after nitriding. The alloy may be utilised as a nitrided or un-nitrided material. 32CDV13 provides less distortion when compared to case-hardened steels.

Applications:

32CDV13 finds use in various commercial engineering markets, from general engineering to aerospace and motorsport. In the nitrided state, the alloy is particularly useful in manufacturing bearings which operate at high speed under heavy loads. Other motorsport-specific applications include:

- Crankshafts
- Camshafts
- Gears

Un-nitrided 32CD13 finds suitability in applications requiring high strength.

Chemical Composition (weight %)

	C	Si	Mn	P	S	Cr	Mo	Ni	V	Fe	
Min	0.29	0.10	0.40			2.80	0.70		0.15	Bal	
Max	0.36	0.40	0.70	0.025	0.020	3.30	1.20	0.30	0.35	Bal	

About Smiths High Performance

Smiths High Performance is a leading stockholder and supplier of high-performance engineering materials. We are material supply chain partners supporting high-technology market sectors.



Benefits:

- Excellent hardness
- High impact and fatigue resistance
- Increased wear resistance once nitrided



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