

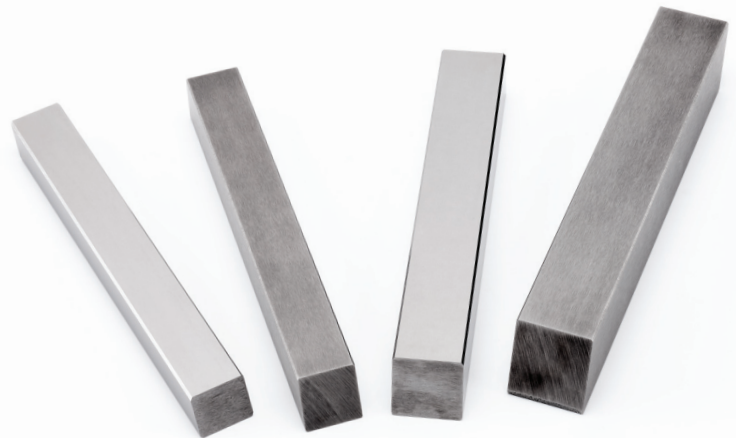


## BEVEL BLADES **TF15**

Carbide Technology You Can Trust

The choice of the carbide grade for bevel blades used in gear cutting is fundamental in achieving the required results.

**TF15** offers all the necessary features to achieve the performance levels and reliability needed in today's demanding industrial environment.



### Features



#### **Multi-functional**

TF15 grade has properties suited to a diverse range of applications and therefore ideal for a reduction of tool inventory and changes of grinding parameters.



#### **High resistance to shock**

Ideal combined properties of high transverse rupture strength and toughness.



#### **Abrasion resistance**

Maintains the edge sharpness needed for superior surface finishes and reduced tool loads.



#### **Sharp cutting edge**

A uniform carbide particle and binder structure enables perfect cutting edges to be formed.



#### **Grindability**

The uniform carbide structure allows a smooth, finish ground surface to ensure the best adhesion to coatings.  
Suitable for all existing grinding technologies.



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## **TF15** Grade properties

ISO K20 (US C2)

Cobalt content : 10 mass%

Tungsten carbide : 90 mass%

Grain size <0.9µm



Hardness (HRA)	Transverse rupture strength (GPa)	Fracture toughness (MPa·m <sup>1/2</sup> )	Density (g/cm <sup>3</sup> )
91.8	4.0	8.7	14.5



Micro structure

### Exceptional advantages

- High strength
- Extreme toughness
- Fracture resistant
- Hardness for sharp edges

For further information on dimensions and sizes available, further technical information, delivery details or special requests, don't hesitate to contact our experts:-



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