



BEVEL BLADES TF15

Carbide Technology You Can Trust

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

Migh 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.





TF15 Grade properties

ISO K20 (US C2)

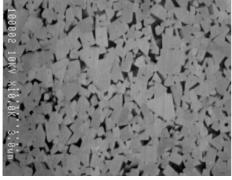
Cobalt content: 10 mass% Tungsten carbide: 90 mass%

Grain size <0.9µm





Hardness	Transverse rupture strength	Fracture toughness	Density
(HRA)	(GPa)	(MPa·m1/2)	(g/cm3)
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:-

▲MITSUBISHI MATERIALS U.S.A. CORPORATION

11250 Slater Avenue, Fountain Valley, CA 92708 Tel. (714) 352 6150 Fax (714) 668 1321 Email hardmaterials@mmus.com

