# ENGINEERED SOLUTIONS Hyperion Grade DZ05

## TUNGSTEN CARBIDE GRADE DZ05 FOR OIL & GAS APPLICATIONS

## High Velocity Fluid Flow in Dry and Wet Applications

### Hyperion Grade DZ05 Benefits

- Best in class erosion and impact resistance

- Combined with high corrosion resistance.

### **Applications for Grade DZ05**

Grade DZ05 has been successfully deployed in the following applications:

- Flow control choke trim assemblies
- Completion autonomous inflow control devices (AICDs)
- Completion flow trims
- Directional drilling tools such as measurement while drilling (MWD) components.



Hyperion Grade	Composition % by Weight		<b>-</b>	Danaita	Hardness at 20°C		Toughness	
	wc	Binder	Carbide Grain Size (µm)	Density (g/cm³)	HV30	HRA	K <sub>1c</sub> [Palmqvist] (MPa*m <sup>1/2</sup> )	TRS [3 point] (MPa)
DZ05	95	5	0.8	15.00	1950	93.5	9.5	3800

### PHYSICAL AND MECHANICAL PROPERTIES

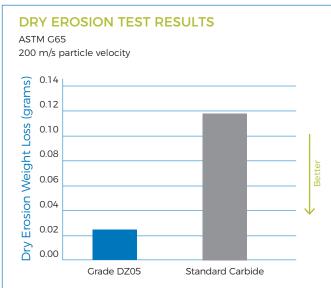
All data shown are typical values.



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### EROSION



### CORROSION

