

## Case Study: **MILLERSOL COB**



### **Millersol COB eliminates cobalt leaching in complex tungsten carbide grinding operation, without compromise on product finish or health & safety.**

A well-known specialist precision engineering business with global reach required a metalworking fluid for use in its tungsten carbide grinding operations.

#### **The Challenge**

The customer needed a product that would cool and lubricate the material to ensure good surface finish of the tungsten carbide.

Tungsten carbide is bound in a matrix of cobalt. Unless carefully controlled, when the material is machined, the cobalt can “leach” into the metalworking fluid. This both damages the structure of the tungsten carbide material, and presents a health and safety risk: cobalt is a hazardous heavy metal and can cause both skin and respiratory problems.

With a strong commitment to employee safety, the customer required a product with a minimised hazard profile, and that would eliminate cobalt leaching, ensuring operator safety.

#### **The Solution**

Millersol COB was the ideal product for the application. A fully synthetic, formaldehyde-free metal grinding fluid, Millersol COB contains specialist additives to inhibit cobalt leaching.

#### **The Result**

The customer has been using Millersol COB for two years and is delighted with the results: the surface finish of their product is to a high standard, and the machines are in great condition, with no compromise on operator safety.

**“We are really pleased with the product, having previously trialled several competitor products in the application, Millersol COB is the best solution by far. We’re extremely happy with the service we receive from Millers Oils, and look forward to working with them for many years to come.”**

Knife Division Manager



Available in 20L and 205L



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