# TECHNICAL DATA SHEET

**Product code:** 5790 **Sector:** Industrial **Issue No:** 1 **Issue Date:** 18/11/25

# Millicut BioSyn Pro 10

Millicut BioSyn Pro 10 is a premium, low-viscosity, neat cutting oil, formulated from 100% renewable synthetic esters for exceptional machining performance and superior Environmental, Health, and Safety credentials. This state-of-the-art fluid is readily biodegradable and delivers maximum precision, prolonged tool life, and enhanced operator acceptability, making it the cutting oil of choice for advanced manufacturing environments.

## Application

Primarily designed for precision machining operations on high-speed sliding head machines and systems employing through-tool lubrication. Its low viscosity ensures rapid work piece penetration and chip evacuation. Highly effective across a wide material spectrum including medium to high tensile steels (including stainless), aluminium alloys, brasses, and bronzes.

## Features & Benefits

- The fluid is readily biodegradable in use and formulated with a 100% renewable ester base and is totally chlorine free, providing a better Environmental, Health, and Safety profile for the operator and the workshop.
- It incorporates advanced anti-mist additives to significantly enhance the working environment and reduce exposure risks, improving overall operator acceptability.
- Unique synthetic lubricity enhancement ensures an exceptionally smooth surface finish and outstanding work piece quality across all specified materials.
- Advanced anti-wear technology delivers superior boundary lubrication, which prolongs tool life and reduces the necessity for costly tool changes and machine downtime.
- Ultra-low viscosity characteristics significantly minimise drag-out losses, leading to reduced fluid consumption and lower operating costs.
- The formulation includes an enhanced anti-corrosion package for superior compatibility with yellow metals.

## Typical Characteristics

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| Density @ 15°C, g/ml | 0.886 |
| KV @ 40°C, cSt | 10.0 |
| KV @ 100°C, cSt | 3.3 |
| Viscosity Index | 233 |
| Pour point, °C | ≥-15°C |
| Flash point, °C | ≥175°C |