



# COOLFLUID

## Cooling fluids for metal processing

### Description

Products of the **COOLFLUID** range are used for the cooling of metals during chip machining: they belong to two different viscosimetric grades and formulations, of which the 'CF' version is *chlore-free*. The formulation of fluids of the **COOLFLUID** range is based on the use of "Synthetic" substances featuring high chemical and physical stability and strong cooling properties.

### Properties, applications, and advantages

Thanks to their unique and balanced formulation these products are able to satisfy cooling requirements during automatic machining by also offering the following advantages:

- High heat removal rates.
- Remarkable antioxidant properties to slower the degradation processes during the machining and hence grant a longer working life of charges.
- Pleasant appearance and absence of unpleasant smells.
- Perfect vision of parts and tools during the machining process thanks to their very clear colour.
- Absence of persistent foaming .

### Storage, health and environmental safety.

Packages must be stored indoor, or at least under a roofing. In case of outdoor storage keep the drums horizontal to avoid water infiltrations.

The absence of hazardous components avoids the need of specific protection means during handling; besides common hygiene and personal protection practices we recommend avoiding prolonged and repeated contacts with the skin, by also wearing, if necessary, protective gloves and using protective creams.

Avoid fog formation.

In any case always refer to the relevant safety sheet before use.

### Typical features

COOLFLUID			22	32	22 CF	32 CF
Features	Testing method	Unit of measurement	Values			
Appearance	sight		Limpid liquid			
Density at 15°C	ASTM D4052	kg/l	0,882	0,892	0,868	0,889
ASTM colour	ASTM D 1500		0,7 (amber)	1 (amber)	0,9 (amber)	1 (amber)
Kinematic viscosity at 40°C	ASTM D 445	cSt	18	30	19	30
Flash point	ASTM D93	°C	> 180	> 190	> 180	> 190

Above data refer to typical production data and are not meant as specification