



# TECHNICAL DATA SHEET

## NFK AL-Lube | Biodegradable cutting fluid for machining operations (MQL) on ferrous and non-ferrous metals

NFK AL-Lube, doped with extreme pressure and anti-wear additives, is suitable for machining ferrous and non-ferrous metals, carbon steel, alloyed and stainless steel, alloyed copper, aluminium and its alloys. It is particularly recommended for micro-spraying systems. NFK AL-Lube should be used undiluted.

VALUES	UNITS		
ISO Class	32	46	
Composition	Mixture of synthetic and natural base oils and additives		
Appearance	Yellow liquid		
Mass density (25°C) (ASTM D 4052)	915		kg/m <sup>3</sup>
Kinematic viscosity at 20°C (ASTM D 445)	80	110	mm <sup>2</sup> /s
Kinematic viscosity at 40°C (ASTM D 445)	32	46	mm <sup>2</sup> /s
Kinematic viscosity at 100°C (ASTM D 445)	8	9.5	mm <sup>2</sup> /s
Viscosity Index (ASTM D 2270)	210	180	
Pour Point (ASTM D 97)	< -20	< -30	°C
Flash Point – COC (ASTM D 92)	> 250		°C
Reichert Test (wear test on steel)	2.49	9.12	mm <sup>2</sup>
Reichert Test (wear test on aluminium)	36.53	45.10	mm <sup>2</sup>
Biodegradability (according to CEC L33 T94)	> 90	%	