

## Castrol Alusol AU 58

High-Performance Soluble Metalworking Fluid

### Description

Alusol AU 58 is a multi-purpose, multi-metal compatible semi-synthetic product designed for heavy duty manufacturing applications. Alusol AU 58 is designed to meet stringent HSSE requirements for metalworking fluids. Alusol AU 58 is chlorine-, boron-, phosphorous- and sulphur-free, yet its performance exceeds soluble oils containing these extreme pressure additives. The tight, stable emulsion of Alusol AU 58 provides excellent tramp oil rejection and product stability in all water conditions.

### Application

	Cast Iron	Low-medium alloyed Steel	High alloyed - stainless steel	Aluminium alloy	Magnesium alloy	Yellow metals
Grinding			*	*		
Milling, Turning (general machining)	*	*	*	*		*
Drilling	*	*	*	*		*
Reaming, Tapping	*	*	*	*		*
Broaching	*	*	*	*		*

### Advantages

- Effective wetting properties maintains clean machines and components
- Boron-free, Chlorine-free, Phosphorus-Free and Sulphur-free for environmental regulations.
- Inhibits microbial growth to extend fluid life in central systems and individual sumps
- Low foaming in all water conditions
- Formaldehyde-free to comply with health and safety regulations
- Specifically designed to provide superior performance on aerospace alloys and automotive aluminium.

### Characteristics

	Unit	Test Method	Value
Appearance of Concentrate	-	CN-TM-007	Hazy, yellow to amber fluid
Appearance of Dilution	-	CN-TM-007	Tight emulsion, stable
pH of Dilution	@ 5%	CN-TM-069	9.1 – 9.3
Specific Gravity	@ 60°F (16° C)	CN-TM-086	0.93 – 0.95
Bulk Density	lbs/gal	-	7.91
Chlorine	-	-	No
Boron	-	-	No
Phosphorus	-	-	No
Nitrites	-	-	No
Phenols	-	-	No

## Recommended Concentrations

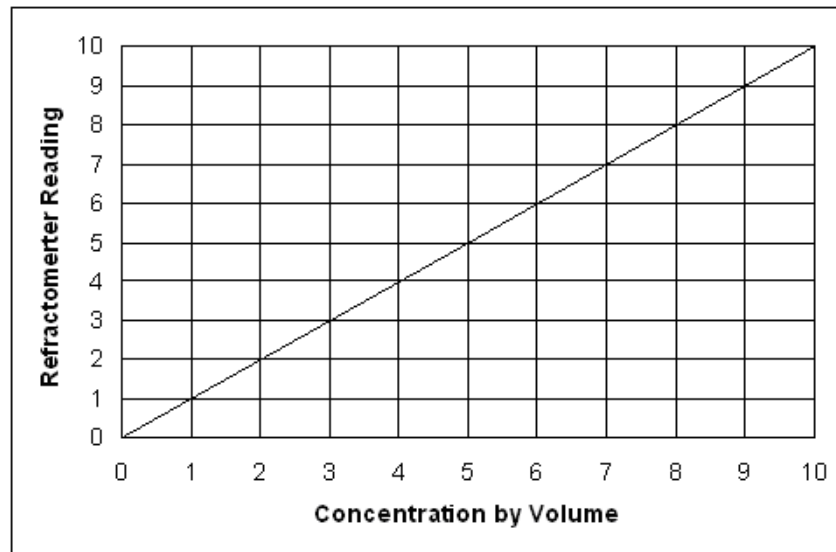
Grinding: 5 – 6%  
Machining: 5 – 10%

Systems using ALUSOL AU 58 should be maintained at a pH range of 8.8 – 9.3 by adding Balancer P3 if pH decreases. Maintenance of pH level is important to control biological activity of coolant system.

Concentration should be maintained at 5-10% depending on machining application. Addition of product concentrate in regular, standard additions will help maintain pH, bio-stability and additive levels.

## Concentration Control

% Concentration	Refractometer Reading
3.0	3.0
5.0	5.0
7.0	7.0
10.0	10.0



## User Advice

Castrol Alusol AU 58 is recommended for use with aerospace and automotive aluminium, and is also suitable for ferrous alloys. Consult your Castrol Account Manager for questions regarding compatibility

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