



## AK AQUACOOL SUPER SERIES

GRADES: 145 & 175

### DESCRIPTION:

AUTOKING AQUACOOL SUPER SERIES high quality semi synthetic water miscible metalworking fluid designed to form a translucent emulsion over a wide water hardness range. Having relatively low oil content, the product has good detergent, coolant and cutting properties, making it suitable for a light to moderate duty cutting and grinding applications. It particularly recommended for the machining and grinding of cast iron while helping to maintain machine cleanliness.

AUTOKING AQUACOOL SUPER SERIES also gives desired cooling characteristics and effective foam control, provides rust and corrosion protections with good lubricity for cutting operation. Also fortified with appropriate biocides to keep control of bacteria's growth even during machine shutdown period.

### APPLICATION:

- AK AQUACOOL SUPER 145 is formulated for machining of ferrous/nonferrous metals in centralized or individual machines. Lower oil content for extra wet ability and corrosion protection. Well suited for cast iron machining and grinding. Finish in all cutting operations where cooling is more important than lubrication.
- AK AQUACOOL SUPER 175 is Water Miscible Fluid formulated for Heavy-Duty machining of Cast-iron, Steel & Aluminum alloys in centralized or individual machines. Recommended cutting fluid for efficient machining of all common Materials and economical because length of sump life is increased.

### PERFORMANCE LEVEL:

- IS: 11186 - 1986 specification.
- UK DEFSTAN 91-23 for oil ZX-1 specifications.

### FEATURES

- Excellent Tool and machinery life.
- One Product for Many Solutions.
- Good Human & Skin compatibility.
- General machining: - 5-7%.
- Heavy Duty Machining: - Above 7%.
- Ultra clear visibility of product Appearance

### BENEFITS:

- Improved performance even in high pressure systems.
- Compatible with our slideway lubricants and easy separations with tramp oil.
- Improves machine cleanliness as resist formation of sticky residues.
- Superior cooling and lubricating properties.
- Provides long-lasting stable emulsions even at 600PPM water Hardness.
- Protection of machine components & tool materials from rust and corrosion.

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**TYPICAL PROPERTIES:**

CHARACTERISTICS	AQUACOOOL SUPER 145	AQUACOOOL SUPER 175
APPEARANCES	BROWN LIQUID	BROWN LIQUID
DENSITY @15°C	1.026	1.026
KINEMATIC VISCOSITY @40°C, CST	30 - 35	45 - 50
FLASH POINT °C, MIN.	160	180
COPPER STRIP CORROSION	1A	1A
PH @ 5% EMULSION IN WATER	9.60	9.75
REFRACTIVE INDEX, %	1.85	0.95
EMULSION STABILITY	STABLE	STABLE
FOAMING TEST	PASSES	PASSES
THERMAL STABILITY TEST	PASSES	PASSES

**HEALTHY, SAFETY & ENVIRONMENT:-** Auto king oil are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standard of industrial and personal hygiene are maintained. For more details contact STERLITE INDIA REPRESENTATIVES.

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