

TECHNICAL DATA SHEET

QUAKER 3755 BIO

BIOSTATIC SEMI-SYNTHETIC MACHINING AND GRINDING FLUID

QUAKER 3755 BIO is a versatile, general purpose, semi-synthetic, machining and grinding fluid. It is suitable for use on a wide range of metal removal operations for both ferrous and aluminium alloys. QUAKER 3755 BIO Enhanced lubrication allows the product to provide superior micro finish on high alloyed steel and aluminium, while offering the versatility to handle heavy-duty application on typical ferrous alloys as well.

Applications

QUAKER 3755 BIO low foaming micro emulsion resists air entrapment. This decreases the risk of pump cavitation and ensures the fluid's lubricating and cooling properties are delivered to the work zone. This prevents premature pump wear, improves quality and productivity. Machines are kept cleaner due to the excellent detergency of the product. It has good fines handling properties and does not produce sticky residues. This results in better visibility and working conditions. Grinding wheels remain clean and free cutting. Biostatic approach handles microbiological growth without biocide additions. And contributes to insuring the products corrosion protection is sustained.

Recommendation For Use

QUAKER 3755 BIO is suitable for machining & grinding operations on cast iron, steel alloys.

Concentration range:

- » Machining 4-8%
- » Grinding 3-5%

Benefits

- Provides stable lubrication for high quality surface finish.
- Excellent corrosion protection for the machined parts, DIN chip <3%.
- Leaves no sticky residues on the workpiece.
- Biostatic.
- Triazine free.
- Contains no Phosphorous, Sulphur or Chlorine.
- Low environmental impact, meets WGK class 1.

Health, Safety And Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

Typical Physical Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance (neat)	Clear amber fluid	Visual
Specific Gravity	0.98	[ASTM D4052]
Appearance (diluted)	Milky emulsion	5%v/v
pH @5%	9.5	[ASTM E 70]
Brix factor	1.1	
Total Alkalinity	112	mgKOH/g

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