

TECHNICAL DATA SHEET

QUAKER FORMULA® PURE BLUE™ WATER-BASED MAINTENANCE CLEANER

QUAKER FORMULA® PURE BLUE™ is a water-based maintenance cleaner formulated for superior cleaning with worker and environmentally friendly properties.

Applications

The unique formulation contains hard-working surfactants to cut through oil, grease, and dirt on floors, walls, and shop machinery. Neutral pH cleaner is compatible with epoxy flooring to eliminate dulling of epoxy clear coating.

Recommendation for Use

It can be used in a wide range of industries including Mining, Oil & Gas, and Steel. When evaluating worker compatibility and safety, QUAKER FORMULA® PURE BLUE™ has a pleasant scent and low alkalinity which makes it less irritating while handling. QUAKER FORMULA® PURE BLUE™ does not contain any hazardous components making it a greener, more environmentally friendly product.

- Floor scrubbers
- Machinery
- Tools
- General maintenance cleaning applications

Cleaning and Protecting

To clean and protect after the metal removal operation, use QUAKER CLEAN® (cleaners) and FERROCOTE® (corrosion preventives) to enhance process compatibility. Consult your Quaker Houghton representative, for more information.

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. This product has a shelf life of 6 months, and it should be stored out of direct sunlight in temperatures between 40°F (4°C) and 110°F (43°C).

Benefits

- Excellent Cleaning - Water-based maintenance cleaner with strong surfactant package that cuts through oil and grease in multiple cleaning applications
- Worker Compatibility - Mild soapy scent and nearly neutral pH makes this cleaner less irritating and much safer to handle compared to other maintenance cleaners
- Environmentally Friendly - Non-hazardous product without phosphates, silicates, phenols, or glycol ether solvents
- Cost Effective - One product replaces many resulting in simplified ordering and reduced costs

Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Clear Blue	
Pounds per gallon at 60°F	8.56	lbs/gal
Neat pH	7.71	
Flash Point via COC	Boils at 100 212	°C °F
Odor	Mild Soapy	
Density at 15.5°C	1.026	g/cm ³



QUAKER FORMULA® PURE BLUE™

WATER-BASED MAINTENANCE CLEANER

Test Performance

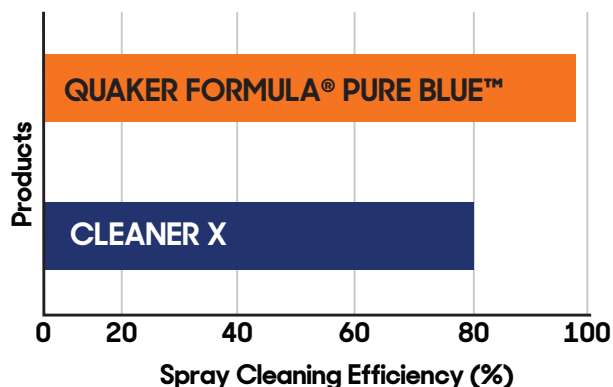
QUAKER FORMULA® PURE BLUE™ has been engineered with a distinct formulation to outperform comparable products that are used in similar applications. A laboratory test evaluated spray cleaning efficiency for grease removal comparing QUAKER FORMULA® PURE BLUE™ (concentrate pH 7.71) to "CLEANER X" (concentrate pH 9.5), a competitive water-based maintenance cleaner. In this side-by-side comparison, cold rolled steel panels were coated with a lithium complex grease at coating weights of 200 mg/ft² (±25 mg/ft²). Spray cleaning efficiency was evaluated for both products using a spray cabinet. Testing was performed in triplicate with the following experimental parameters:

- 10% cleaner concentration
- 90°F cleaner bath temperature
- 25 psi spray header pressures
- 5 second cleaning intervals

Each panel was weighed before and after spray cleaning to calculate percent spray cleaning efficiency, or percent of grease coating removal

PRODUCT NAME	AVERAGE COATING WEIGHT	AVERAGE CLEANING EFFICIENCY
10% QUAKER FORMULA® PURE BLUE™	194 mg/ft	98%
10% "CLEANER X"	189 mg/ft	80%

Cleaning Efficiency Test



Fluid Maintenance

QUAKER FORMULA® PURE BLUE™ can be used neat for some applications as described below, or added to water. All dilutions should be made in water and usage concentration should be determined based on soil conditions. Specific maintenance cleaning applications are detailed below.

ALL PERCENTAGE BY VOLUME	
Floor Scrubbers	3 - 10% by volume
Hand Mop Operations	5 - 20% by volume
Soak Tank	2 - 10% by volume
Wipe On	1 - 100% by volume
Steam Cleaning	3 - 10% by volume

All reasonable care has been taken to ensure this publication is accurate upon issue. Such information may be affected by changes subsequent to issue. This Technical Data Sheet is to be used solely for this product. Prior to any use, consult the Safety Data Sheet (SDS) for information on hazard risks and product use parameters. All liability and all warranties express or implied are hereby excluded as to product performance results, the accuracy of these data including any warranty of merchantability or fitness for any purpose. 016167

