PUREON

Highlights

- Better surface finishes
- Faster removal rates
- No foam
- Extended diamond life
- Non-staining
- Non-corrosive
- Compatible with all filtration systems

Synthetic grinding fluid (recirculating)

CHALLENGE 300HT

CHALLENGE 300-HT is a synthetic formulation developed to optimize removal rate and surface finish in grinding, sawing, and dicing processes using diamond grinding wheels and blades. The product's exceptional heat transfer characteristics insure prolonged diamond life, even with the most difficult materials. CHALLENGE 300-HT is compatible with all filtration systems, and its foam-free operation promotes operator acceptance. Note: New customers should consider the CHALLENGE 310-HT, which has an added characteristic of enhanced detergency that helps to keep the machine and work area more clean of grinding swarf and debris.

Typical applications
Ceramic, fused silica, glass, polycarbonate lens

Slurry additive	Base material	Dilution ratio	pH value	Specific gravity
CHALLENGE 300HT	Water	40:1	9.8	1.03
CHALLENGE 405HT	Water	400:1	12.3	1.02

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CHALLENGE grinding fluids improve the quality and consistency of the cut, while also prolonging diamond wheel lifetime.

CHALLENGE lapping additives dramatically improve slurry properties for more consistency and control.

Pureon offers a wide range of customized solutions. More information can be found on www.pureon.com/products/overview

Product specifications

Base material	Water
Shelf life	24 months

Order information

Packing	Product is available in 5-gallon pails and 55-gallon drums. Other sizes available upon request.
Unit of measure	Gallon [gal]

Application recommendations

Handling	CHALLENGE 300HT is designed for use at economical dilution ratios and is equally effective in hard and soft water. Maintaining dilution ratios with a hand-held refractometer is recommended. A pH meter is also useful. Develop production-specific scales by obtaining accurately measured samples of a properly diluted mixture that corresponds to use. Maintain a higher concentration for recirculating, filtered coolant systems.
Storage	Product should be stored in a temperature controlled environment. Prolonged exposure to temperatures at or below 32 ° Fahrenheit (0 °C) is discouraged. Prolonged exposure to temperatures at or above 100 ° Fahrenheit (38 °C) is also discouraged. In addition, material should always be sealed when not in use to prevent evaporation.
Disposal	Dispose of in accordance with all applicable local regulations.

This product is manufactured by Intersurface Dynamics.

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