



**Highlights**

- Highly economical
- Reduces scratching due to plate and/or pad contamination
- Minimizes scratching from in-process handling
- Prevents staining
- Facilitates downstream cleaning processes
- Minimizes plate and/or pad cleaning and maintenance

Detergent

**CHALLENGE 700HT**

CHALLENGE 700HT is a synthetic formulation developed for the rinsing and wet storage of lapped and/or polished parts. CHALLENGE 700HT minimizes scratching from in-process handling; protects parts from staining; and prevents hard-to-clean particles from adhering to the part surface for more effective downstream cleaning.

Also recommended for the rinsing and/or washing of lapping plates, CHALLENGE 700HT removes process debris from both the plate's surface and grooves, thereby preventing the formation of iron oxide and/or abrasive particle aggregates that can dislodge and cause scratching. When used for rinsing and/or washing polishing pads, CHALLENGE 700HT prevents staining; increases pad life by keeping the pore structure open; and reduces the frequency of pad conditioning.

**Typical applications**

Ceramic, fused silica, glass, polycarbonate lens

Slurry additive	Base material	Dilution ratio	pH value	Specific gravity
CHALLENGE 700HT	Water	30:1	9.8	1.03
CHALLENGE 803S	Water	30:1	3.5	1.05



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. Get in touch with us.

**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 700HT is used at dilutions ranging from 2% – 3%, depending on the condition and type of lapping equipment being used and the workpiece. Evaluation should begin at 2% with deionized or tap water. It is fed into the rinse line and flooded over the lapping surface either before the parts are placed on the plate, or after lapping is completed.

After the lapping plate has been lifted, 700HT should be flooded over the surface. This breaks the surface tension between the parts and the plate and removes any remaining swarf, which could cause scratching and complicate handling. Parts can then be removed, re-rinsed and stored in 2% 700HT bath. For polishing applications follow the same dilution guidelines.

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.

**Contact**

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