CytoSyl 3750Y and Hardened Glass TECHNICAL DATA SHEET

OVERVIEW

CytoSyl 3750Y is a hydrophobic and oleophobic glass coating with great anti-fingerprint and lubricity properties. Strengthened glass such as Gorilla Glass (Corning), Dragontrail (AGC) and Xensation (Schott AG) can be effectively coated with 3750Y when the glass is properly prepared. CytoSyl bonds to cleaned hardened-glass and produces a low surface energy, low refractive index, transparent, oil, water and stain repellent coating that is less than 10 nanometers thick.

Hardened Glass Surface Preparation

- 1. Plasma cleaning: If the hardened glass is hydrophilic, plasma treatment is not required. If the glass is hydrophobic (water contact angle >5°) argon plasma treatment for 5 minutes is recommended.
- 2. Acid treatment. Immerse the hardened glass in 5% hydrochloric acid (HCL) for 4 hours. Rinse the glass with deionized water.
- 3. Water soak: Submerge the glass in deionized water for 18 hours and dry by heating at 90°C.
- 4. Apply 3750Y: Dip the cleaned hardened glass for 1 min in CytoSyl 3750Y at 0.2% and then bake the glass at 150°C for 1.5 hours with 50% relative humidity. Vapor deposition and spraying can also be used to apply CytoSyl 3750Y

Abrasion resistance		
Steel wool abrasion cycles	Plasma cleaned glass	Plasma and "acid" cleaned glass
	Water contact angle	Water contact angle
0	110°	110°
1000	95°	110°
2000	90°	110°
3000	90°	110°
4000	85°	110°
5000	85°	110°
6000	80°	105°

All statements, technical information and recommendations contained in this document are based upon tests or experience that Cytonix believes are reliable. However, many factors beyond Cytonix's control can affect the use and performance of a product in a particular application, including the conditions under which the product is stored or used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for the user's method of application. No warranty or condition, expressed or implied, is given regarding the accuracy of the statements, technical information or recommendations contained in this document. Except to the extent prohibited by law, Cytonix will not be liable for any losses or damages arising in any way from the Cytonix product including, without limitation, any direct, indirect, special, incidental, or consequential damages, regardless of the legal theory asserted, including warranty, contract, negligence, or strict liability. VS20230525