

101X 6 SERIES TECHNICAL DATA SHEET

OVERVIEW

DryWired® 101X 6 Series is an easy-to-apply liquid coating solution ideal for protecting electronics from moisture and corrosion. The PFOS/PFOA-free fluoropolymer liquid chemistry relies on a patented C6 fluorocarbon to provide hydrophobic and oleophobic properties to electronic substrates. The solution is easily applied by dip, spray, spin, flow, or syringe coat, and suspended in a non-toxic, non-flammable, hydrofluoroether solvent that is compatible with a variety of materials. Minimal to no masking is required depending on assembly configuration. 101X dries in seconds to a thin, transparent film with excellent anti-wetting properties against liquids including water, oil, and a variety of chemicals such as heptane, toluene and acetone. 101X is an excellent product for electronic manufacturers, assemblers, and contract coating facilities to provide an effective solution at a lower cost. Made in the USA. TSCA, RoHS, REACH & WEEE compliant.

USES:

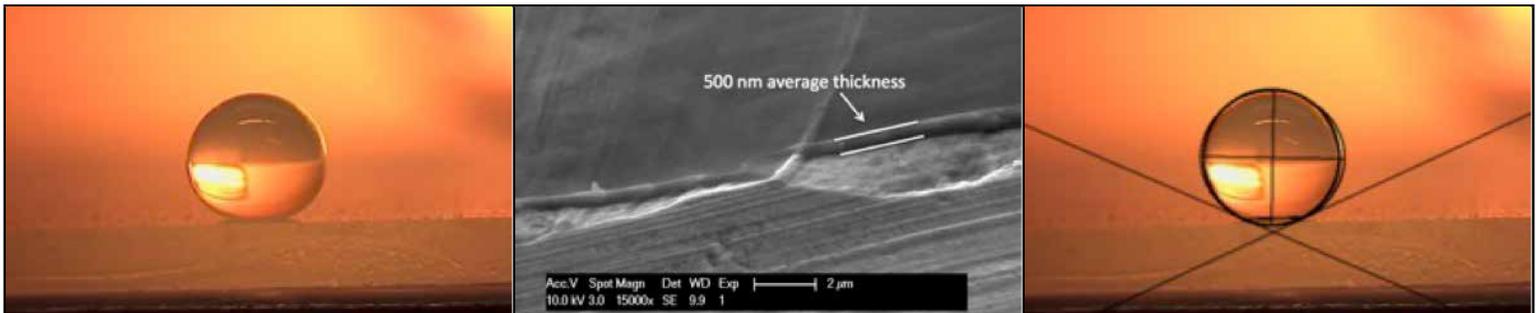
- ▶ Fluidic & Biomedical Devices
- ▶ PC Boards
- ▶ MR Heads
- ▶ Micro Motors
- ▶ Ball Bearing Tracks
- ▶ MEMS
- ▶ Inkjet Print Heads
- ▶ Hard Disk Drive Components
- ▶ Atomic Force Microscopes
- ▶ TFT-LCD
- ▶ Films
- ▶ Membranes

FEATURES

- ▶ Can be applied to plastics, metals, glass
- ▶ Repels oil and water
- ▶ Chemically resistant
- ▶ No VOCs
- ▶ Lead free
- ▶ RoHS, REACH, WEEE complaint
- ▶ Easy-to-apply
- ▶ Excellent wetting for coating applications
- ▶ Short processing times
- ▶ Optional heat cure
- ▶ Easily reworkable
- ▶ Solder through repairable
- ▶ Cost effective alternative to traditional conformal coatings
- ▶ Not limited to electronic applications
- ▶ Little to no masking required

INDUSTRIES

101X has been used for applications in the following industries: Agriculture, Military, Government, Medical, Commercial, Consumer Electronics, Energy, Aerospace, Drone, Avionics, Wearables, and Flexible Electronics.



All statements, technical information and recommendations contained in this document are based upon tests or experience that DryWired believes are reliable. However, many factors beyond DryWired's control can affect the use and performance of a DryWired 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 DryWired 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, DryWired will not be liable for any losses or damages arising in any way from the DryWired 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.

SOLUTION PROPERTIES	
SPECIFIC PHYSICAL FORM	colorless liquid
SOLIDS	0.5%-20.0%
DRY TIME	5-30 seconds
CURE TIME	atmospherically for 24 hours or 10 minutes at 60°C
SPECIFIC GRAVITY	1.50-1.55
BOILING POINT	61°C (100.4°F) at 1,13hPa
FLASH POINT	none
VOC CONTENT	none
TOXICITY	low
UV TRACER	optional
SHELF LIFE	5 years

FILM PROPERTIES	
APPEARANCE	transparent
NON-FLAMMABILITY	meets UL746E
CONTACT ANGLE (STATIC)	110° (water) 80° (hexadecane)
THICKNESS	400 nm - 500 nm
REFRACTIVE INDEX	1.37
GLASS TRANSITION TEMP.	75° C
THERMAL STABILITY	250°C for 1 hour, 150°C continuously
DIELECTRIC STRENGTH	2,500 volts/25 micrometers
DIELECTRIC CONSTANT	2.25 @ 100 KHz
DISSIPATION FACTOR	0.016 @ 100 KHz
SOLDER-THROUGH CAPABLE	Yes

Film properties based on a 4% 101X 6 Series coating solution.

Size Options

101X 6 Series is available as a ready-to-use solution, a 20% concentrate solution, and as a resin to fit the needs of the application. Ready-to-use solutions are available in 32 oz sample quantities.

Concentrates		
Concentration	Quantity	SKU
20.0%	1 Liter	DW1660-1L
20.0%	1 Gallon	DW1660-1G
20.0%	5 Gallon	DW1660-5G
20.0%	55 Gallon	DW1660-55G

Ready-to-use		
Concentration	Quantity	SKU
0.5%	32 oz	DW1660-05-S
	1 Gallon	DW1660-05-1G
	5 Gallon	DW1660-05-5G
	55 Gallon	DW1660-05-55G
1.0%	32 oz	DW1660-1-S
	1 Gallon	DW1660-1-1G
	5 Gallon	DW1660-1-5G
	55 Gallon	DW1660-1-55G
2.0%	32 oz	DW1660-2-S
	1 Gallon	DW1660-2-1G
	5 Gallon	DW1660-2-5G
	55 Gallon	DW1660-2-55G
4.0%	32 oz	DW1660-4-S
	1 Gallon	DW1660-4-1G
	5 Gallon	DW1660-4-5G
	55 Gallon	DW1660-4-55G

Additional Information

Product information is available on www.drywired.com. Additional information can also be requested by contacting sales@drywired.com or +1-800-581-4528



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