

COMPARATIVE INSIGHTS

Duraglide™ HI and Duraglide™ XF

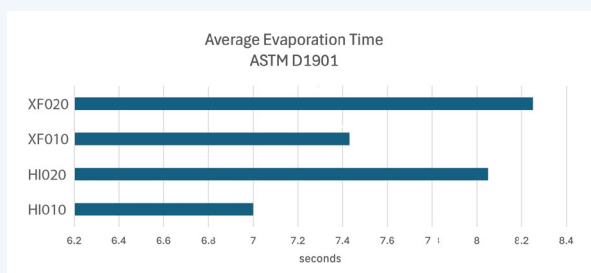
Duraglide Dry Lubricants reduce friction for better performing medical devices



TECHNICAL INSIGHTS

- Duraglide™ HI has better environmental properties due to lower global warming potential (GWP)
- Duraglide™ HI has a longer hang time, which produces a more consistent coating throughout the product use
- Duraglide™ HI has a higher exposure limit for users
- Duraglide™ HI has better material compatibility
- Both have similar, fast evaporation rate

DRY TIME EVAPORATION



This report presents a technical comparison of product performance conducted by the MicroCare™ Critical Cleaning Lab.

Using validated test methods and controlled laboratory conditions, this evaluation provides objective, data-driven insights into the relative attributes of each formulation.

Results are intended to help engineers, designers and process specialists identify the most effective chemistry for their specific application and performance requirements.

PHYSICAL & CHEMICAL PROPERTIES

	Duraglide™ HI	Duraglide™ XF
Appearance	Opaque Liquid	Opaque Liquid
Carrier Odor	Slight Ethereal	Slight Ethereal
Coating Odor	none	none
Coating Coefficient of Friction	0.06	0.06
% Volatile by Weight Carrier	100	100
% Solids by Weight	0.5-10%	0.5-10%
PTFE Particle Size Average Bulk	1-15 microns	1-15 microns
PTFE Particle Size Average Mean	3.7 microns	3.7 microns
Carrier Evaporation Rate (ether=1)	>1	>1
Flash Point Closed Cup ASTM D93	Non Flammable	Non Flammable
Flash Point Open Cup ASTM D 1320-86	Non Flammable	Non Flammable
ISO 10993 Tested and Certified	yes	yes

Duraglide™ HI and Duraglide™ XF



ENVIRONMENTAL PROPERTIES

	Duraglide™ HI	Duraglide™ XF
Class	HFE	HFC
GWP	320	1650
ODP	0	0
VOC	Exempt	Exempt
Atmospheric Life (years)	4.1	17.1
GHS Classification	Not Hazardous	Not Hazardous
Exposure Limit (TWA)	750ppm	200ppm
Exposure Ceiling	None	400ppm
Inhalation Risk	Mild Irritation	Diac arrhythmia risk in abuse
Skin / Eye Contact	Mild Irritation	Generally Safe
OSHA Regulatory Status	Not Hazardous	Not Hazardous

MATERIAL COMPATIBILITY

	Duraglide™ HI	Duraglide™ XF
PLASTICS		
Polyethylene (HDPE, LDPE)	Compatible	Compatible
Polypropylene (PP)	Compatible	Compatible
Polyester (PET, PBT)	Compatible	Compatible
Epoxy	Compatible	Compatible
Phenolic	Compatible	Compatible
PTFE, ETFE	Compatible	Compatible
ABS	Compatible	Compatible
Polycarbonate	Compatible	Incompatible
Acrylic (PMMA)	Compatible	Incompatible
ELASTOMERS		
EPDM, EPM	Compatible	Compatible
Butyl Rubber	Compatible	Compatible
Natural Rubber	Compatible	Compatible
Nitrile Rubber, NBR	Compatible	Compatible

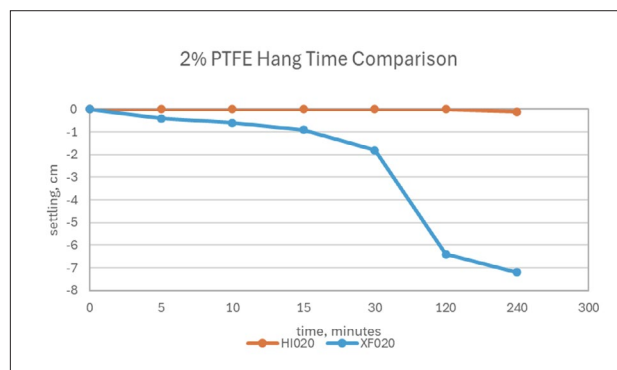
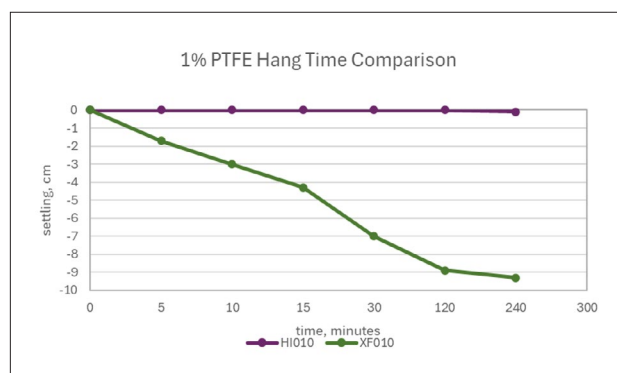
HANG TIME COMPARISON



INITIAL TIME



240 MINUTES



LAB SERVICES THAT SOLVE YOUR PROBLEMS

At the heart of the *MicroCare* Critical Cleaning Lab is a team of enthusiastic chemical engineers, chemists and researchers who have the skills and the motivation to help our customers solve their critical cleaning problems. Nobody knows more about critical cleaning. We're eager to help you clean better, faster, more safely and more economically.



ON-SITE CLEANING AUDITS

Demos with your team to showcase proper cleaning processes and potential results.



IN-LAB CLEANING TRIALS

Trials are conducted on your parts and contamination to ensure you get the most effective cleaning.



DETAILED CLEANING RECOMMENDATIONS

To ensure the combination of the hardware, the solvent and the process is perfect for each critical cleaning.



INNOVATIVE PRODUCTS

BETTER, FASTER, SAFER

MicroCare offers the industry's most extensive range of critical cleaning fluids, lubricants and coatings.

Everything you need to achieve perfectly clean, high-performing parts at the lowest cost per part.



MicroCare, LLC
 595 John Downey Drive
 New Britain, CT 06051 USA
 Tel: +1 860 827 0626
 Toll Free: 1 800 638 0125
 Email: TechSupport@MicroCare.com

MicroCare U.K. Ltd
 Unit 4, Whitehall Court
 Leeds
 LS12 5SN UK
 Tel: +44 (0) 113 3609019
 Email: MCCEurope@MicroCare.com

MicroCare Asia Pte Ltd
 102E, Pasir Panjang Road
 Citilink, #05-06
 Singapore 118529
 Tel: +65 6271 0182
 Email: TechSupport@MicroCare.sg



For more information
 and to download SDS
 visit our website
MicroCare.com