

## **UCON Fluids and Lubricants**

UCON Textile Lubricant LS

Product Description	UCON <sup>™</sup> Textile Lubricant LS is a water soluble lubricant developed specifically for use in the misting attachments for projectile circuit lubrication in Sulzer PU, PS, and modified TW- 11 Weaving Machines. It provides excellent lubrication as well as affording complete removability from fabric during most scouring processes.
Advantages	<ul> <li>Complete water washability significantly reduces incidents of oil staining and spotting of fabrics.</li> <li>Extreme-pressure and anti-wear properties afford excellent lubrication for the projectile circuit.</li> <li>Good compatibility with brake shoes, GS sight glasses, and all original equipment elastomers used in Sulzer weaving machines.</li> </ul>
Scourability	UCON Textile Lubricant LS is water soluble and is, thus, easily removed form fabric by washing with water. In scourability tests carried out by the Institute of Textile Technology (ITT), UCON Textile Lubricant LS was completely removed from 100% woven cotton fabrics weighing 4.7 and 6.6 ounces per square yard and 50/50 cotton/polyester woven fabrics weighing 3.6, 5.4, and 10.1 ounces per square yard. This is compared to highly visible spots which were left on fabric contaminated with petroleum oil-based textile machine lubricants.
	While removability problems are not anticipated, we strongly recommend performing a washability test on your particular fabric at your finishing house before converting to UCON Textile Lubricant LS.
Lubrication	UCON Textile Lubricant LS provides excellent oxidation and corrosion protection and meets or exceeds all American Gear Manufacturers Association (AGMA) specifications for extreme-pressure gear lubricants. Inspection of the projectile circuit of Sulzer Weaving Machines after lubrication with UCON Textile Lubricant LS has shown no indication of abnormal wear on any parts.
Compatibility	Elastomers – UCON Textile Lubricant LS is compatible with all original equipment elastomers on Sulzer Weaving Machines.
	Polyurethane Brake Shoes – UCON Textile Lubricant LS has exhibited excellent compatibility with Sulzer brake shoes.
	<u>Plastics</u> – UCON Textile Lubricant LS will have a tendency to soften or crack some plastic parts used on some weaving machines, especially modified TW-11s. It is highly recommended that plastic parts and sight tubes be changed to metal or glass prior to the use of UCON Textile Lubricant LS. Before using UCON Textile Lubricant LS in any plastic molded sump, please contact your Dow Chemical Company representative for specific compatibility data.

## **Typical Physical Properties<sup>†</sup>**

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	ISO Viscosity Grade	100	
	Viscosity (cSt at 40°C)	100	
	(cSt at 100°F)	18	
	Viscosity Index	220	
	Pour Point, °C (°F)	-48.3 (-55)	
	Specific Gravity, 20/20°C	1.043	
	Flash Point		
	Pensky-Martens Closed Cup, ASTM D 93, °C (°F)	196 (385)	
	Turbine Oil Rust Test, ASTM D 665	Pass	
	FZG Extreme-Pressure Test, Stages Passed	12	
	120 LAILEINE-FLESSULE TESI, SIAJES FASSEU	ΙZ	
	<sup>†</sup> Typical properties, not to be construed as specifications		
Storage and	UCON Textile Lubricant LS is relatively easy to store and handle.	The room temperature	
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Handling	viscosity will be in the range of 300-400 centistokes, and a centrifugal pump is considered		
	suitable for transferring the product at temperatures above 10°C. If lower temperatures are		
	encountered, a positive displacement pump is preferred.		
Changeover Procedure for UCON Textile Lubricant LS	UCON Textile Lubricant LS is incompatible with many petroleum oil lubricants and it is therefore imperative that all petroleum oil be drained form the sump prior to the use of UCON Textile Lubricant LS. It is also highly recommended that the following flushing procedure be used:		
	<ol> <li>Drain old petroleum oil from sump and clean oil feed lines blowing through with air. If solvents such as mineral spirit be removed in the same manner.</li> </ol>		
	<ol> <li>Physically clean residual oil from inside sump and clean of oil by blowing through with air. If solvents such as minera should be removed in the same manner.</li> </ol>	•	
	<ol> <li>Fill mist pump with UCON Textile Lubricant LS. Operate level is near empty. Refill sump with UCON Textile Lubric normally. No further flushing will be required.</li> </ol>		
	Due to potential differences in viscosity and flow properties between petroleum oils, it may be necessary to adjust the flow rates of the r Thus, the lubricant flow rates should be observed during the conver- necessary adjustments made.	nisting attachments.	
Recommended Textile Lubricant Spotting Test	The following procedure was developed with the help of the Institut (ITT) to best simulate the spots produced by Sulzer TW-11, PU, an	0,	
	The cloth to be tested is spotted with 2, 5, and 8 drops of lubricant, with a pipette or medicine dropper. The spots are then outlined with indelible ink. Two sets of three spots are recommended for each lubricating UCON Textile Lubricant LS, we recommended that the lubric be tested as control. The spotted piece of cloth should then be parprocess in question. After finishing, the cloth should be examined	th several dots of an ubricant tested. When icant currently being used ssed through the finishing	

Product	
Stewardship	

Dow encourages its customers and potential users to review their applications from the standpoint of human health and environmental aspects. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel will assist customers in dealing with environmental and product safety considerations. Dow literature, including Material Safety Data Sheets, should be consulted prior to the use.

## For More Information:

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