



DuraClear Crystal 7

High performance synthetic barrier fluid

Product Description

DuraClear Crystal 7 is a low viscosity oil that is inert, non-reactive, non-flammable and non-toxic. This oil possesses a very low coefficient of friction, and it can withstand extreme pressures that are disproportionate to its viscosity.

DuraClear Crystal 7 can be safely used with reactive chemicals such as oxygen, hydrofluoric acid, chlorine, fluorine and bromine.

Typical Applications

This low viscosity oil is primarily used as a barrier fluid for mechanical seal applications.

DuraClear Crystal 7 has a Coefficient of friction that is capable of lubricating Teflon coated materials that are subject to frictional forces.

Other uses can be for valves, gaskets and chains.

Typical Properties*

Viscosity cSt ASTM D445	20°C (68°F)	16
	40°C (104°F)	8
	100°C (212°F)	2
Pour Point	<-70°C (<-94°F)	
Density g/ml	0°C	1.89
	100°C	1.70
Volatility ASTM D972 % in 22 hr	66°C (150°F)	2
	121°C (250°F)	65
Oil, 4-ball water test ASTM D4172 (20 kg / 107°C [225°F] / 1200rpm / 60min)		
	Wear scar, mm (+0.01)	0.40
	Friction coefficient (+).003)	0.07
Oil, Falex pin/V-block ASTM D3233 load carrying		
	Ability, max. load, lb (guage)	1400
	Torque at max. load, in lb	31
ISO grade of oil		7

* These values are not intended for use in preparing applications.

FTA128eng ORG 05/16 Printed in USA

Flowserve Corporation has established industry leadership in the design and manufacture of its products. When properly selected, this Flowserve product is designed to perform its intended function safely during its useful life. However, the purchaser or user of Flowserve products should be aware that Flowserve products might be used in numerous applications under a wide variety of industrial service conditions. Although Flowserve can provide general guidelines, it cannot provide specific data and warnings for all possible applications. The purchaser/user must therefore assume the ultimate responsibility for the proper sizing and selection, installation, operation, and maintenance of Flowserve products. The purchaser/user should read and understand the Installation Instructions included with the product, and train its employees and contractors in the safe use of Flowserve products in connection with the specific application.

While the information and specifications contained in this literature are believed to be accurate, they are supplied for informative purposes only and should not be considered certified or as a guarantee of satisfactory results by reliance thereon. Nothing contained herein is to be construed as a warranty or guarantee, express or implied, regarding any matter with respect to this product. Because Flowserve is continually improving and upgrading its product design, the specifications, dimensions and information contained herein are subject to change without notice. Should any question arise concerning these provisions, the purchaser/user should contact Flowserve Corporation at any one of its worldwide operations or offices.

USA and Canada

Kalamazoo, Michigan USA
Telephone: 1 269 381 2650
Telefax: 1 269 382 8726

Europe, Middle East, Africa

Roosendaal, The Netherlands
Telephone: 31 165 581400
Telefax: 31 165 554590

Asia Pacific

Singapore
Telephone: 65 6544 6800
Telefax: 65 6214 0541

Latin America

Mexico City
Telephone: 52 55 5567 7170