



KIREI
CHEMICAL

TECHNICAL DATA SHEET



KATANA SUTORIMU HFA-S

Fire resistant hydraulic fluid



DESCRIPTION

KATANA SutorimuHFA-S—synthetic fire resistant hydraulic fluid (concentrate) with a package of special anti-wear, anti-oxidant, anti-foam and anticorrosion additives. Fully satisfies ISO 6743/4 HFA-S standard requirements. Fluid is based on biostable technology, does not support bacterial growth, corrosion, odor, foaming and does not decompose at high loads and turbulent conditions.

KATANA SutorimuHFA-S forms a true transparent solution during mixing with water. It is used in hydraulic equipment of large steel presses, in pipe hydro testing equipment and other systems, including those that operate in fire conditions. Recommended concentration is 3-5%. Water hardness should be in the range 0-600 ppm.



TECHNICAL ADVANTAGES

100%

Lower the risk of fire

85%

Lower foaming

50%

Wider water hardness

In contrast to conventional mineral oils which have a relatively low flash point (180-200°C), KATANA Sutorimu HFA-S contains demineralised water (95% in ready-to-use emulsion) in the composition. That is why fluid has no flash point at all. It provides excellent protection of equipment from the fires.

Due to the presence of high active anti-foam additives KATANA Sutorimu HFA-S does not form a foam, even in the most turbulent conditions.

Thanks to the optimal composition of KATANA SutorimuHFA-S it can operate effectively in water with low, medium, high, and even in very high hardness without foaming, corrosion and decomposition of the emulsion.



SPECIFICATIONS

KATANA SutorimuHFA-S fully satisfies and is recommended to replace following types of fire resistant hydraulic fluids: ISO 6743/4 class HFA-S, ISO 12922 class HFA-S, DIN 51502 HFA-S.



TECHNICAL PARAMETERS

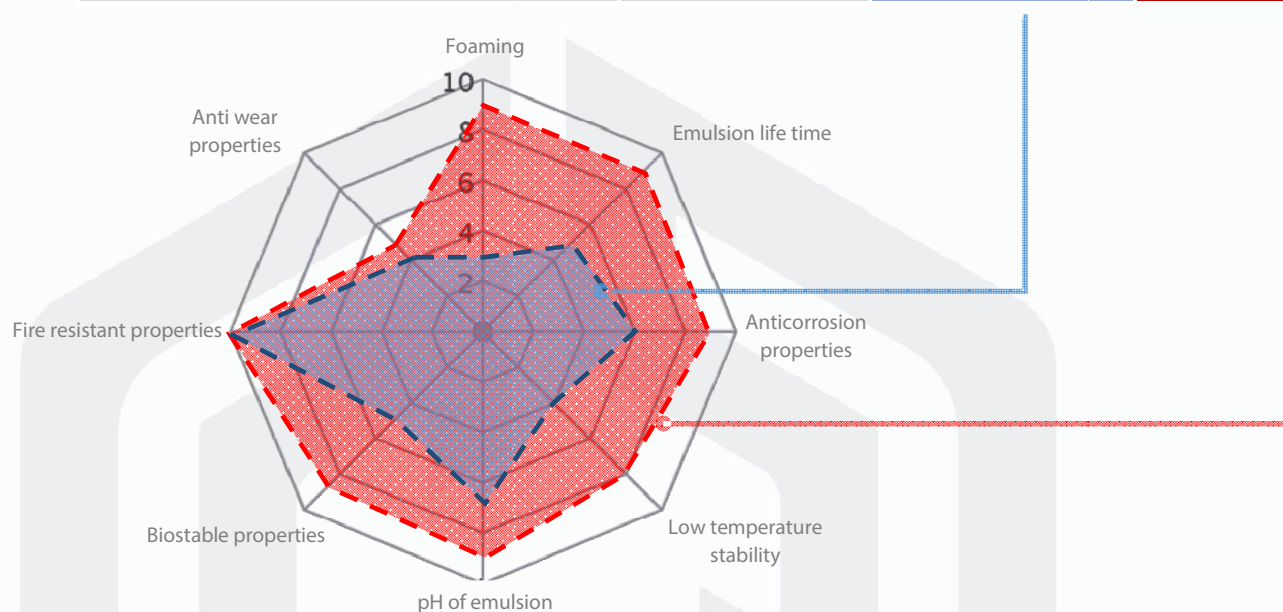
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ISO 9001 Quality System Management
ISO 14001 Environmental Management System

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Parameter	Test method	Typical HFA-S fluid	Sutorimu HFA-S
Concentrate			
Color	Visual	Any	Orange
Odor		The sharp smell of amines	Non-irritating
Kinematic viscosity at 40°C, cSt	ASTM D445	2-5	3
Stability at low temperatures (-15°C)	-	Decompose	Pass
Density at 20°C	ASTM D1298	1.050	1.081
TAN, mg KOH/g	ASTM D664	10	2
Emulsion			
Corrosion of ferrous metals (method of contact pairs) - After 5 hours - After 168 hours	-	Pass Forms corrosion	Pass Pass
The foaming tendency, cm ³	-	100	0
Foam stability, cm ³	-	50	0
pH (3%)	-	8.5	9.3
Refractiveindex	-	1-2	2



Physical and chemical characteristics are typical for this product. These parameters are subject to change without notification, however, full compliance with the product specifications is guaranteed.

Shelf life: 5 years from date of manufacture. Store unopened in a cool, dry, well-ventilated and away from children. Recommended storage temperature is +10...+30°C. Avoid direct sunlight, heat sources and strong oxidizing agents. Material Safety Data Sheet (MSDS) for professional users available on request.

Developed in Osaka, Japan. The quality management system in the production of oils KATANA corresponds to the requirements of ISO 9001. The system of environmental safety in the production of oils KATANA corresponds to the requirements of ISO 14001.