

PRESS RELEASE | ECULLY, FRANCE – September 1st, 2021

KELICO® V: The unique range of overbased complex calcium sulfonate biodegradable greases

The one-step process from SEQENS

Over the years SEQENS Advanced Specialties acquired a strong expertise in “one-step” carbonatation process and propose a unique range of overbased calcium sulfonate greases.

During the “one-step process”, all ingredients are mixed together, sulfonic acid, base oil (vegetable, synthetic or mineral based) and lime. The finished greases are a complex mixture of calcium sulfonate, calcium carbonate under calcite form and a 100 % chosen carrier.

With that single step process, it becomes feasible to produce overbased calcium sulfonate without mineral oil-based precursors.

Unique biodegradable greases technology

SEQENS Advanced Specialties strengthens their support to the Lubricants industry by launching their KELICO® V range of biodegradable greases.

KELICO® V products enable the lubricants’ manufacturers to formulate environmentally acceptable lubricants with exceptional performances.

EAL are bio lubricants that are “biodegradable”, “minimally toxic” and are “not bioaccumulative”. Let’s have a look at KELICO® V products.

According to numerous industry standards, KELICO® V ester-based overbased calcium sulfonate greases are defined as biodegradable, non-bioaccumulative and non-toxic to aquatic species which makes them suitable candidates for applications where EALs are required.

KELICO® V overbased calcium sulfonate greases are premium greases for high load and high temperature applications, suitable for extreme environment and particularly adapted for marine applications thanks to their resistance to water and their intrinsic anticorrosion performances.

The KELICO® V range

The KELICO® V range is composed of 3 products:

TEST	Method	KELICO® V 2150	KELICO® V 2046	KELICO® V 0046
Base oil		Ester	Ester	Ester
Base oil viscosity at 40°C	ASTM D 445	150cst	46 cst	46cst
Biodegradability	OECD 301 B	>60 %	>60 %	>60%
Dropping point	ASTM D 2265	>350°C	> 300 °C	>350°C
NLGI grade	ASTM D 217	2	2	0
Shear Stability in presence of 10 % water Variation after 100,000 strokes (1/10mm)	ASTM D 7342A	285 ($\Delta = -1\%$)	280 ($\Delta = 9\%$)	367 ($\Delta = -6\%$)
Oil separation (%)	ASTM D 1742	0%	0.7 %	NA
4-Balls EP-Weld Load,	ASTM D 2596	400kg	> 400 kg	400kg
4-Balls Wear, scar diam, 75°C, 1h 1200rpm	ASTM D2266	0.6 mm	0.6 mm	0.6 mm
Water Wash Out 79 °C, 1h	ASTM D 1264	8%	11 %	12 %
EMCOR (DI water)	ASTM D6138	0-0	0-0	0-0
EMCOR (sea water)		2/3	4/4	2/3
FFK – 30°C (hPa)	DIN 51805	1350	375	100
Hazard Labeling		No	No	No

In conclusion, SEQENS opens the way to new opportunities for lubricants' manufacturers. Being able to choose 100% of the overbased calcium sulfonate greases carriers with SEQENS one-step process leads to fully customisable greases and open a wide range of possibilities in term of performances optimisation, new applications as well as health, safety and environment considerations.

About SEQENS

SEQENS is a world leader in pharmaceutical solutions and specialty ingredients.

With 24 production sites and 7 worldwide R&D-centers in Europe, North America and Asia, SEQENS develops tailor-made solutions and ingredients for the most demanding industries such as healthcare, electronics, cosmetics, food and home care. Driven by a culture of excellence and a strong entrepreneurial spirit, our 3,200 employees are committed to provide our customers-the highest level of service and quality while acting ethically in accordance with our Corporate Social Responsibility program

press@seqens.com

www.seqens.com / LinkedIn : SEQENS / Twitter : seqens_group