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# Product Data Sheet



NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

## GREASE

### SumTech® FGCS Series

*SumTech® FGCS Series is a 100% synthetic calcium sulfonate thickened lubricating grease created specifically for the food and beverage industries. Its special additive system provides superior water spray off and water wash off properties. It offers excellent anti-wear properties, extreme pressure properties, oxidation resistance, and protection from rust and corrosion. The synthetic base stock gives SumTech® FGCS Series exceptional low temperature properties and thermal stability over a wide temperature range.*

*SumTech® FGCS greases are NSF H1 Registered and meet USDA 1998 (H1) guidelines for lubricants with incidental food contact. FGCS greases are ideal for the lubrication of cookers and other equipment used in meat/poultry processing, fruit/vegetable processing, and bakeries where higher operating temperatures are a concern.*

### Physical Properties

PRODUCTS	FGCS-00	FGCS-1	FGCS-2	FGCS-2-380
NLGI Grade	00	1	2	2
Color	Off-White to Beige	Off-White to Beige	Off-White to Beige	Off-White to Beige
Texture	Semi-Fluid	Smooth	Smooth	Smooth
Base Oil	Synthetic Hydrocarbon	Synthetic Hydrocarbon	Synthetic Hydrocarbon	Synthetic Hydrocarbon
Base Oil Properties				
Viscosity @ 40°C cSt	180	220	220	382
Viscosity @ 100°C cSt	22	25.53	25.53	40
Viscosity Index	135	147	147	156
Thickener Type	Calcium Sulfonate	Calcium Sulfonate	Calcium Sulfonate	Calcium Sulfonate
Drop Point, °F	550	600 +	600 +	600 +
Service Temperature	-40°F to 350°F -40°C to 177°C	-40°F to 350°F -40°C to 177°C	-40°F to 350°F -40°C to 177°C	-40°F to 350°F -40°C to 177°C
Penetration				
Worked 60 dbl strokes	385-415	310-340	265-295	265-295
Roll Stability, Change	< 3.0%	< 3.0%	< 3.0%	< 3.0%
Oil Separation	< 0.5%	< 0.5%	< 0.5%	< 0.5%
4-Ball Wear	0.45mm	0.50 mm	0.50 mm	0.50 mm
4-Ball Load EP Weld Pt	315kg	400 kg	420 kg	400 kg
Corrosion Preventative				
Properties ASTM D 1743	Pass	Pass	Pass	Pass
Water Washout, % Loss	< 10	< 2	< 1	< 1
NSF Registered	H1	H1	H1	H1
Kosher Approved	Pending	Yes	Yes	Yes
Halal Certified	Pending	Yes	Yes	Yes

**Shelf Life:** Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use.