

sigma FG - 10

Multi-Purpose Food Grade Fluid



Description :

sigma FG - 10 is thermally stable ultra pure Food Grade Lubricant.

sigma FG - 10 Food Grade Lubricants are specially formulated with all ingredients meeting requirements mentioned under chapter 21 CFR, 178.3570 of **US FDA**

sigma FG - 10 is registered with NSF for H1 grade Lubricants
H1 - Incidental Food Contact - Highest safety



Non Food Compounds
 Program Listed (H1)
 Reg. No. 148460

Application :

sigma FG - 10 can be used for lubrication purpose for machineries in below given industries.

-  Edible Oil Refinery
-  Sweets Processing Facility
-  Dairy Processing Facility
-  Divider oils
-  Herbs Processing Facility
-  Bakery Processing Facility
-  Distillery
-  Dust Suppression
-  Confectionery items
-  Restaurants
-  Spices
-  Recuperation oil for Edible Oil Solvent extraction Plants

sigma FG - 10 meets Highest Safety Standers for Food Industries and fit perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans.

Typical Properties :

Property	
Appearance	Bright and Clear Liquid
Density Kg/L @ 15° C	0.835±0.03
Kin. Vis. @ 40 ° C	10-12
Kin. Vis. @ 100 ° C	3
Vis. Index	100
Flash Point ° C	175
Pour Point °C	-12

Packing : 210 Ltrs

What Quality and properties should a perfect Recuperation / Hexane Recovery Oil should have ?

A perfect Recuperation / Hexane Recovery Fluid should have below given properties.

Lowest Possible Kinematic Viscosity.

Lower Kin. Vis. of the fluid provides higher flow rate and reduces load on circulation pump. Absorption of Hexane is at much more faster rate in lower Kin. Vis. grade Fluid. And Heat transfer speed of the fluid is also very high due to lower vis. **sigma FG - 10** has got very low Kin. Vis. of 10cSt @40°C

High Hexane Absorption Capacity

Basic purpose of the fluid is to absorb Hexane into it. Fluid's chemistry should be such that it can absorb maximum amount of Hexane in it. Generally used lubricating oil is a mixture of various chemistries with varying hexane absorption capacity. At the same time additives used into the same reduces hexane absorption capacity. **sigma FG - 10** has got perfect chemistry for this application. **sigma FG - 10** has got highest Hexane absorption capacity as compared to other oils used for this application

Should be a Food Grade

sigma FG - 10 is the only Food Grade product in Indian Market design properly for Hexane recovery in Solvent Extraction plant

Should be Thermally Stable.

Recuperation oil is subjected to higher temperature and lower temperature in operation. Fluid used for this application should be thermally stable to withstand this thermal shock. Molecule of **sigma FG - 10** is such that as compared to generally used product it has got higher Thermal Stability.

Should have longer working life.

Due to economic reason higher working life of fluid is always desirable. **sigma FG - 10** will have higher working life as compared to generally used fluids due to above mentioned reasons.

Should be Economical

Rate of **sigma FG - 10** is very competitive even though it is a perfect Food Grade fluid to be used as Recuperation oil / Hexane Recovery Fluid.

