

Gemini[®] Film Capacitor Vacuum Metallization

PFPE Shielding Oils PBS Series

Introduction:

- Gemini[®]PBS are colorless fluorinated fluids designed for use in vacuum vapor metallization processes.
- Gemini[®]PBS are based on PFPE, they are nonreactive, nonflammable, chemically inert, stable to oxidation and stable to irradiation.
- Gemini[®]PBS have outstanding evaporation properties allowing metallization processes to run at low and more constant evaporation temperatures.
- Gemini[®]PBS have been distilled to make sure almost no residue in evaporation.

	PBS-701	PBS-702	PBS-703
Temperature range °C	-67~120	-63~132	-60~150
Viscosity mm ² /s			
20°C	26	38	62
40°C	11.7	15	24
100°C	2.6	3	4.4
Viscosity index	-	29	70
Pour point °C	-65	-63	-60
Maximum volatilization			
ASTM 2595 %	60	35	10
121°C in 24hr			
Density g/ml			
0°C	1.9	1.91	1.91
100°C	1.71	1.72	1.73

PBS Features:

- Exceptional high purity can make sure:
 - Stable operation parameter, so during the whole process, no need to change heating power and temperature
 - Almost no residue, this means much higher cost efficiency
 - Very stable oil evaporation brings much higher productivity
- Lower operation temperature:
 - Low temperature cause less damage to substrates
 - Less energy consumption
 - Much lower loss tangent
 - More distinct free margin, this can solve smearing problem in metallization process

Applications:

PBS serve vacuum vapor metallization film industries like: electronic, electric, communication, optical, packaging, decoration etc.

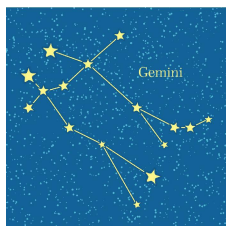
•• vapor deposited film for capacitor, high brightness / durability transparent reflective film, magnetic tape, static electricity removal tape, electromagnetic wave shielding film, PCB film, film for ultra-thin foil transfer, film used for vibration plates in cellular telephone microphones (ECM), shielding film for ultra-narrow coaxial cables, highly transparent decorative liquid crystal bezel surface film, electrode materials, computer backup tape, optical liquid crystal display reflecting film, carrier tape etc.

- Special packaging film like: decoration、printing、textile、food、medical、cigarette、anti-forgery、reflecting material、costume etc.
- Auto、train、ship windshield film、glass window / door film、building exterior film、eyewear lens film、auto headlight film、solar heated greenhouse film、film in electric heater、anti-frost、anti-fog film、electroluminescent display transparent electrode film etc.
- Precision optical film: electrical film、metal film、laser film、cold light film、spectroscopic film、anti-reflection film、optical filter、optical bandpass filter film、optical cut film etc.
- Space exploration: lens film、laser film、film in detector and telescope etc.

Attentions:

- . During processing, wear protection clothes, be careful of eye、skin contact.
- . Keep the container sealed and store in cool、well ventilated locations.

Packaging/Transport: 5Kg,20Kg,50Kg plastic container. Not classified as dangerous in the meaning of transport regulations.



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