



# DAIFLOIL™ · DAIFLOIL™ GREASE

DAIFLOIL is a low molecular weight compound of chlorotrifluoroethylene, which is the monomer to make up the NEOFLOON PCTFE fluoropolymer. It has excellent heat resistance and chemical resistance, and also good oiliness. DAIFLOIL GREASE is a lubricating grease formed from a DAIFLOIL base, which is chemically inert and has high thermal stability and solvent resistance.

## 1. Product Grades and Physical Properties

Different types of DAIFLOIL are available, as shown below, depending on the level of viscosity.

Grade	#1	#3	#10	#20	#50	#100	
Property							
Average molecular weight (approx.)	500	700	900	1,000	1,100	1,300	
Appearance (25°C)	Transparent Light oil	Transparent Medium oil	Transparent Heavy oil	Transparent Heavy oil	Semi-transp. Soft wax	Semi-transp. Wax	
Pour point °C	-70 or lower	-55~-35	-20~0	5~15	20~40	45~65	
Specific gravity (25°C/25°C) (100°C/100°C)	1.850~1.890	1.900~1.930	1.935~1.955	1.960~1.975	-	-	
	-	-	-	-	1.945~1.965	1.970~1.995	
Viscosity	cP(25°C)	10~30	35~100	190~490	700~3,000	-	-
	cSt (25°C)	5~15	20~50	100~250	350~1,500	-	-
	cP (100°C)	-	-	-	-	35~140	150~300
	cSt (100°C)	-	-	-	-	20~70	80~420
Refractive index n <sub>D</sub>	1.397~1.403	1.405~1.407	1.408~1.410	1.412~1.414	-	-	
Surface tension mN/m (25°C)	26~28	28~29	29~30	30~31	-	-	
Coefficient of volume expansion 1/°C	7.9×10 <sup>-4</sup>	-	7.9×10 <sup>-4</sup>	-	-	-	
Structural formula	-(CF <sub>2</sub> CFCl) <sub>n</sub> -						

\*The above numeric values are representative and not guaranteed.

DAIFLOIL GREASE, DG-203, has the same excellent chemical resistance as DAIFLOILs' s base oil is DAIFLOIL.

Grade	Unworked Penetration (25C)
DG-203	220~280

## 2. Cautions on Handling

Be sure to read the Material Safety Data Sheet (MSDS) carefully before using this product.

Take care not to let the product get in your eyes or adhere to your skin. Avoid inhaling vaporized product.

If the product has gotten into your eyes, immediately wash your eyes with flowing water for more than 15 minutes and consult a physician. If the product has adhered on your skin, immediately wash the part with soap and water and rinse it thoroughly.

## 3. Packaging unit

DAIFLOIL: 1 kg (glass bottle)

DAIFLOIL GREASE: 50 g (tube), 1 kg (glass bottle)

- Products listed in this information sheet are supplied for general industrial use. Because they are not designed and manufactured for medical use, they have not been tested for appropriateness or safety for medical use. Therefore, we do not, in any way, guarantee their appropriateness and safety as materials for medical use. Whether they can be used for medical applications must be judged based on experiments conducted on your own as well as opinions of medical experts and statutory regulations established by relevant authorities. If the products are to be used for such applications, they will be supplied only if you agree with the terms and conditions proposed by DAIKIN.
- The data in this information sheet are examples of actual measurement, and example applications listed do not, in any way, guarantee the result of such applications of the products.
- When exporting DAIFLOIL (excluding DAIFLOIL GREASE), which falls into the goods listed in row 5 of appended table 1 of Export Trade Control Order as stipulated in the Foreign Exchange and Foreign Trade Act, you must follow necessary procedures including the obtaining of export permit from the Japanese government.

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