

GA-7550 Aerosol (PFOA control product)

Fluorocarbon mold release agent DAIFREE™

Characteristics

DAIFREE™ GA-7550 is a new aerosol-type, mold release agent that matches the environmental regulations. It has the equivalent mold release performance as conventional GA-6310 and GA-6311, and can be conveniently used for various applications and materials as a general type. Be sure to read the cautions on handling carefully.

Features

Good release performance with the fluorocarbon as the principal ingredient. Highly precise release performance can be obtained with a thin film.

The composition complies with the regulations on environmental burden substances such as PFOA and ozone-depleting substances.

Non-silicone based release agent, appropriate for molding electronic and electrical parts.

Excellent drying characteristics are ideal for the application which requires fast drying.

Prevents molds from becoming contaminated, and reduces the number of mold cleaning cycles.

A cap with a gas discharge mechanism is adopted considering the safety during disposal.

Properties*

Volume	420 ml
Principal Solvent	Isohexane
Propellant	LPG
Hazardous Material Classification	Class 4, Petroleum group 1 (not water soluble)

*Typical properties are not suitable for specification purposes.

Applications

Rubbers: SBR, NBR, EPDM, CR, U, FKM, etc.

Thermosetting resins: Epoxy, Non-saturated Polyester, Phenol resin, etc.

Thermoplastic resins: PE, PP, PVC, PS, ABS, PC, etc.

Comparison with conventional DAIFREE™ GA-6310, GA-6311

	GA-7550	GA-6311 (conventional)	GA-6310 (conventional)
Active ingredient	Fluorocarbon compound	Fluorocarbon compound	Fluorocarbon compound
Principal solvent	Isohexane	Isopropyl alcohol	HCFC-141b
Spray agent	LPG	LPG	HFC-134a
Flammability	Flammable	Flammable	Nonflammable
Fire Defense Law	Class 4, Petroleum group 1	Class 4, Petroleum group 1	Not applicable
Content (per can)	270g (420 ml)	272g (420 ml)	450g (370 ml)
Number of packages (per case)	20	20	12
Can size (diameter x height, mm)	66x212	66x207	66x205
Package size (length x width x height, mm)	360x290x235	360x290x230	290x220x215
Package weight (per case, kg)	8.8	8.4	7.1

Method of Use

Application method

Shake the can well, hold it about 20 - 30 cm away from the mold, and then spray lightly so that a thin, uniform film is formed. (When it is used for the first time, make sure the mold release agent used previously has been completely removed before application.)

Cleaning the mold

Alkaline cleaning agents are effective. (Use a commercially available mold cleaning agent. Immerse in a 10% aqueous solution of Potassium hydroxide or Sodium hydroxide to which a small amount of surface active agent has been added.)

Slight contamination can be removed by wiping with Isopropyl alcohol, etc. to some extent.

Usable Temperature Range

Room temperature to 200°C

Cautions on Handling

Be sure to read the Safety Data Sheet (SDS) and precautions on the label before using this product.

Do not use this product for other than industrial purposes.

Store in a place under 40°C and avoid heat source or direct sunlight.

This product has been developed for industrial purposes and we shall not guarantee the safety if used other than the above. If it is going to be used for medical and/or food applications, please contact us in advance.

Continuous mold release test by semi-rigid urethane foam

Mold release agent	Number of continuous release operations					
	1	2	3	4	5	6
GA-7550	ε	ε	ε	ε	⊙	
GA-6311	ε	ε	ε	ε	⊙	
GA-6310	ε	ε	ε	ε	⊙	
Silicone base	⊙	⊙				

Release performance evaluation criteria

Classification

Y: Releases easily

ε: Releases when small force applied

⊙: Releases when strong force applied

☐: Does not release

Release test conditions

Molding conditions

☐ Mold material Aluminum

☐ Mold shape 5.5cm Ø 1cm

☐ Mold temperature 25°C

☐ Release agent application method Single application by spray at normal temperature