

### Adhesive for Cryogenic Applications

# NITOFIX SK-229

## 1. Outline

“NITOFIX SK-229” is two-pack curing type adhesive for cryogenic applications mainly consisting of epoxy resins.

## 2. Properties

Item	Color phase	Viscosity (at 20°C)	Specific gravity (at 20°C)	Appearance
Base resin	Blue	100 Pa·s	1.4	 <p>Standard packing: 1kg can each</p>
Curing agent	Yellow	100 Pa·s	1.3	
Compound (Base/Agent =1/1)	Green	100 Pa·s	1.4	

Viscosity measuring condition: BROOKFIELD viscometer; Rotor: No. 4; Rotation speed: 5 rpm

## 3. Features

- Excellent adhesion available at a wide range of temperatures from cryogenic to room temperature
- Excellent heat-shock resistance
- Excellent adhesion to steel plate, plywood, plastic, etc.
- Appropriate viscosity ensures high workability; there is no drop or leakage during operation.

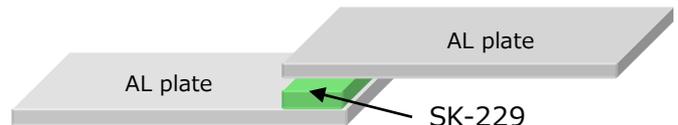
## 4. Use

- To bond superconducting coil wire
- To fix/bond heat insulating materials for LNG/LPG tanks and heat exchangers
- To bond FRP, aluminum, rubber, plastic, etc.

## 5. Characteristics(Shear adhesion)

Item	Unit	-165°C	- 50°C	RT	60°C	80°C	100°C	Heat Cycle(10 cycles at 25°C) -196°C; 30sec+25°C; 10min
Shear strength	MPa	16.2	26.0	16.4	10.6	3.8	1.9	16.7

- Adherend: AL plate 2 mmt x 25 mm x 100 mm (Polish the surface with #120 sandpaper and then remove oil with acetone.)
- Adhesive coating size: 0.6 mmt x 25 mm x 12.5 mm
- Curing condition: 20°C x 24 hr or 100°C x 1 hr
- Measuring condition: Tensile speed: 5 mm/min



Contact : Nitto Shinko Corporation Customer Support Center E-Mail [tsc-nsk@nitto.co.jp](mailto:tsc-nsk@nitto.co.jp)

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