



Bridge Box

Cable
&
Connector

Adhesive

Other

Adhesive

To obtain good measurement results, the strain gage or sensor (transducer) must be bonded firmly to the measuring object.

						
Model	CC-33A CC-33AX5	CC-35 CC-35X5	CC-36 CC-36X5	EP-270	EP-340	EP-34B
Type	Instantaneous adhesive cured at normal temperature	Instantaneous adhesive cured at normal temperature	Instantaneous adhesive cured at normal temperature	Cured at normal temperature	Cured at normal temperature or by heating	Cured at normal temperature or by heating
Category	1 type of cyanoacrylate liquid	1 type of cyanoacrylate liquid	1 type of cyanoacrylate liquid	2 types of epoxy liquid mixed	2 types of epoxy liquid mixed	2 types of epoxy liquid mixed
Features	• Suitable for bonding general-purpose gages which are used for general stress measurement at normal temperature. • Quick curing ensures smooth bonding workability. • Enables measurement in approximately 1 hour from bonding.	• High viscosity makes it suitable for bonding to porous materials such as lumber and concrete. • Suitable for bonding general-purpose gages which are used for general stress measurement at normal temperature.	• Suitable for bonding a high-elongation gage (such as KFEM and KFEL) at normal temperature. • Suitable for bonding to non-adhesive materials such as aluminum alloy (A7075) and magnesium alloy. • High peeling resistance, high impact resistance and less aging deterioration of bonding strength	• Suitable for bonding gages for strain measurement at very low temperature.	• Suitable for bonding gages for strain measurement at mid temperature.	• Suitable for bonding gages for strain measurement at mid temperature and for bonding gages for transducers.
Major Applicable Product	KFGS KFGT KFRB KFWB KFWS KFRPB KFRS KFP KSPB KSNB (Excl. E5) KSPH KSPLB KFLB KFNB KFSB KCH KV ASM-A-ID LMA-A LMB-A	KFGS KFGT KFRB KC KFRPB KFP	KFEM KFEL KFGS KFGT KFRB KFWB KFWS KFRPB KFRS KFP KSPB KSNB (Excl. E5) KSPH KSPLB KV	KFLB	KFGS KFRB KFWB KFGT KC KFSB KSNB (Excl. E5) KSPLB	KFRPB KFP KFHB
Operating Temperature (°C)	-196 to 120 (Regular temperature: 20 to 80)	-30 to 120 (Regular temperature: 20 to 80)	-30 to 100 (Regular temperature: 20 to 80)	-269 to 30	-55 to 150	-55 to 200
Major Applicable Materials	• Metals (Steel, stainless steel, copper, aluminum alloys A1050, A2024, etc.) • Plastics (Acrylate, PVC, nylon, etc.) • Composite materials (CFRP, GFRP, PCB, etc.) • Rubber	• Concrete • Mortar • Wood	• Metals (Steel, stainless steel, copper, aluminum alloys A1050, A2024, A7075, magnesium alloy, etc.) • Plastics (Acrylate, PVC, nylon, polypropylene, etc.) • Composite materials (CFRP, GFRP, PCB, etc.) • Concrete • Mortar • Wood • Rubber	• Metals (Steel, stainless steel, aluminum alloy, etc.)	• Metals (Steel, stainless steel, aluminum alloy, etc.)	• Metals (Steel, stainless steel, copper, aluminum alloy, etc.) • Plastics (Acrylate, PVC, etc.) • Composite materials (CFRP, GFRP, PCB, etc.)
Curing Requirements	• Apply finger pressure (100 to 300 kPa) for 15 to 60 seconds. (After curing, leave the gage for 1 hour or more.)*¹	• Apply finger pressure (100 to 300 kPa) for 30 to 60 seconds. (After curing, leave the gage for 1 hour or more.)*¹	• Apply finger pressure (100 to 300 kPa) for 30 to 180 seconds. (After curing, leave the gage for 1 hour or more.)*¹	• Apply pressure (50 ±20 kPa) for 24 hours at approx. 25°C.	• Apply pressure (100 ±50 kPa) for 24 hours at approx. 25°C or for 2 hours at 80°C.	• Curing Pressurization Condition 30 to 50 kPa • Heating Condition Normal temperature (25 °C) 24 h or 80 °C 2 h
Capacity	CC-33A: 2 g × 1 CC-33AX5: 2 g × 5	CC-35: 2 g × 1 CC-35X5: 2 g × 5	CC-36: 2 g × 1 CC-36X5: 2 g × 5	50 g (Resin: 25 g Hardener: 25 g	30 g (Main agent: 6 g × 4 Curing agent: 1.5 g × 4	30.8 g (Main agent: 5.6 g × 4 Curing agent: 2.1 g × 4

*The stated operating temperature is for the adhesive only, and may differ depending on combinations with strain-gage or sensor. When using the adhesives and gages together, read the attached instruction manual carefully.



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*Items classified as dangerous goods may require dangerous goods packaging in accordance with the IATA dangerous goods regulations.

EP-370	PC-600	PI-32	EP-17	S-7	S-9B
Cured by normal temperature + heating	Cured by heating	Cured by heating	Cured by heating	Curing promotion agent	Surface preparing agent
2 types of epoxy liquid mixed	1 heating type of phenol liquid	1 heating type of polyimide liquid	Epoxy liquid and powder mixed	Amine compound, methanol	—
• Low viscosity makes it suitable for bonding gages (KFB) in bolts.	• Suitable for bonding gages for strain measurement at low, mid and high temperatures and for bonding gages for transducers.	• Suitable for bonding gages for strain measurement at high temperature.	• Dedicated for semiconductor gages (KSNB-E5). (Low shrinkage upon curing)	• A curing promotion agent to be used with instantaneous adhesive CC-33A (Applicable environment, low in temperature and dry such as in winter)	• Aims to promote adhesive strength of the adhesive used to bond a strain gage onto plastics such as polyester, nylon 66, polypropylene, and polyethylene, which hardly accept adhesives. (As a surface preparing agent)
KFB	KFGS KFRB KFHB KFLB KFNB	KFU KFHB	KSNB-E5	—	—
normal temp. to 50	-269 to 250	-269 to 350	-50 to 170	—	—
• Metals (Steel, stainless steel, copper, aluminum alloy, etc.) • Plastics (Acrylate, PVC, etc.)	• Metals (Steel, stainless steel, copper, aluminum alloy, etc.)	• Metals (Steel, stainless steel, copper, aluminum alloy, etc.)	• Metal (Steel, stainless steel, copper, aluminum alloys, etc.)	—	—
• Keep at normal temperature for 24 hours and heat it for 5 hours at 80°C.	• Apply pressure (150 to 300 kPa) for 1 hour at 80°C → 2 hours at 130°C → 2 hours at 150°C.	• Standard curing^{*1} Pressure condition: 200 to 500 kPa Heating condition: 1 hour at 100°C → 2 hours at 200°C • Aging^{*3} KFU with no pressure applied: RT → 2 hours at 300°C KFHB with no pressure applied: RT → 2 hours at 250°C	• After finger pressure, apply tape pressure while heating it for cure for 2 hours at 130°C, 2 hours at 150°C	—	—
40 g (Main agent: 30 g Curing agent: 10 g)	100 g	20 g	30 g	25 g	40 g

*1 The finger pressure application time differs depending on temperature and humidity conditions. The lower the temperature and humidity, the longer the finger pressure application time required.

*2 If it is difficult to heat at 200°C: 1 hour at 100°C → 5 hours at 160°C

*3 The heating rate is approx. 5°C/min.