

Kumho Petrochemical Co., Ltd.

R&BD Center

Issue date : Sep. 1, 2015, Version 4.



PRODUCT-SPECIFIC COA DATA

Analysis Item	Unit	Spec.						Method
		3110	3110-f	3111	3111-f	3112	3114	
Appearance	Eye test	Clear & Slightly Yellow						
Water content	wt%	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	ASTM D 1364
OH VALUE	(mgKOH/g)	230 - 260	230 - 260	230 - 260	230 - 260	180 - 220	75-105	ASTM E 222
Viscosity (25°C)	CPS	300 - 600	400 - 800	300 - 600	400 - 800	900 - 1,200	600-1,000	ASTM D 562
Color Index	G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.5	< 1.5	ASTM D 1209
Residual phenol	%	<1	< 0.1	<1	< 0.1	< 0.1	<0.1	

Packaging

- Drum : PE, Zn (200kg), Bulk (IBC, ISO tank)

Applications

Product Name	Applications part
Kumanox-3110-f	Plasticizer, diluent, Non-reactive diluent for epoxy paint system.
Kumanox-3110	Epoxy color grade. (Part A, Part B)

Kumanox-3111-f	Plasticizer, diluent for epoxy paint system.
Kumanox-3111	Epoxy color & transparent grade. (Part B)
Kumanox-3112	Plasticizer, diluent, Non-reactive diluent for epoxy paint system. Heavy duty Epoxy paint system. (Part A, Part B)
Kumanox-3114	Plasticizer, diluent, Non-reactive diluent for epoxy paint system. Heavy duty Marine Epoxy paint system. (Part A, Part B)

Recommended usage

1) Epoxy resin part (Part A) = 828 or 331, and other resin + Kumanox-3110-f or 3110 [2-10wt%]

2) Hardener part (Part B) = amine curing agent (D-230, Ancamine, Anchamine, cycloaliphaticamine. et.,) + [Kumanox-3110-f or 3110] or
[3111-f or 3111] [5-30wt%]

3) Kumanox-3111, 3111-f is only used for epoxy hardener part.

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