

KJCMPA[®]-100 / KJCBPA[®]-100

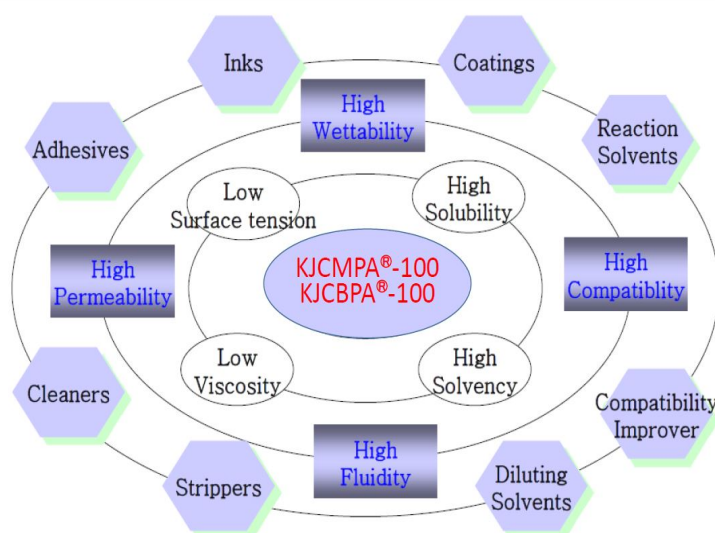
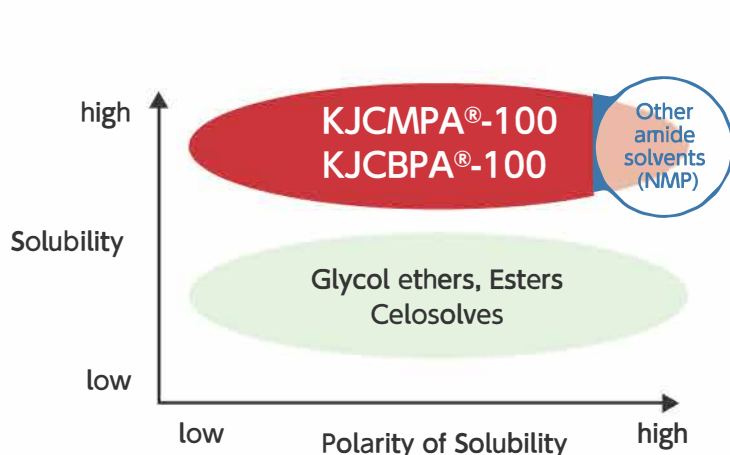
Ether-Amide Based solvents with High Dissolving Power

- **High dissolving power and amphiphilicity** ⇒ As NMP and DMF alternative
- **Low contact angle** ⇒ For coatings, ink-jet inks, etc.

- **High dissolving power to poorly-soluble polymers!**

KJCMPA[®]-100 and KJCBPA[®]-100 are able to **dissolve solutes with wide range of polarity**, including poorly-soluble polymers **such as polyamide and polyimide**, to a high extent.

Compared to NMP, KJCMPA-100 and KJCBPA-100 are solvents with high safety and low skin irritation, and therefore NOT subjected to regulations.



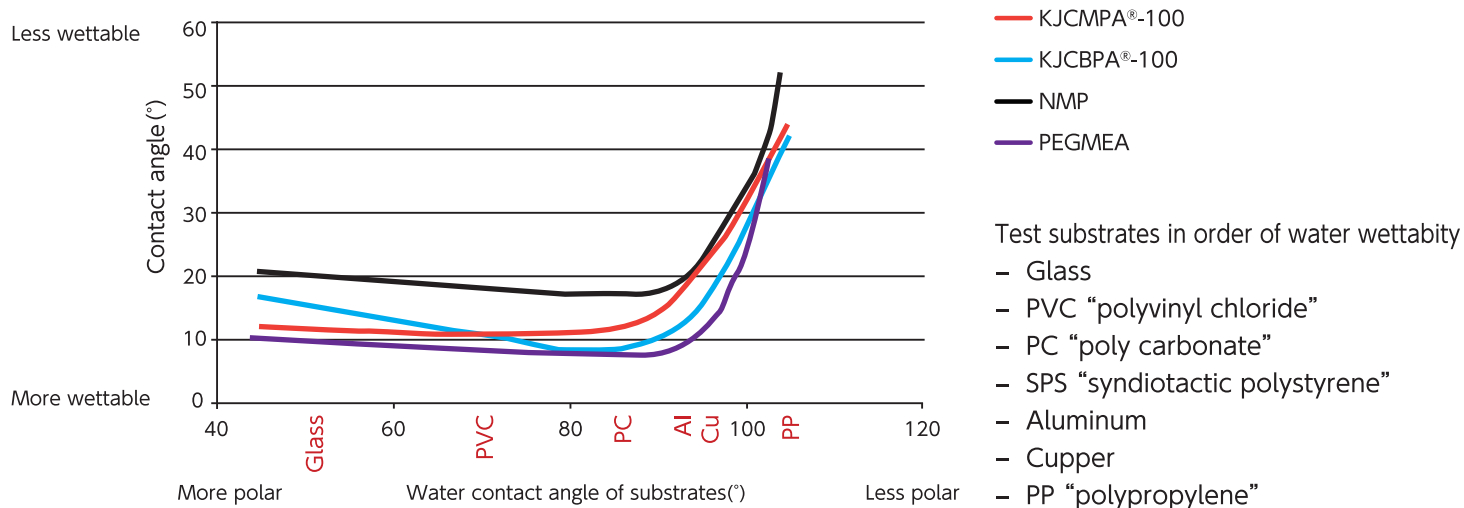
Highly-amphiphilic ether-amide based solvents!

Solutes / Solvents	Water	Glycerin	p-Amino- phenol	n-Hexane	Liquid paraffin
KJCMPA [®] -100	○	○	○	×	×
KJCBPA [®] -100	○	○	○	○	○
NMP	○	○	○	×	×

※ At the condition of Solute / Solvent = 1/1 (ratio by wt).
 Compatibility test is done at room temp.
 ○: completely compatible, ×: non-completely compatible

Low contact angle and amazing wettability to base materials!

e.g., most suitable for ink-jet inks due to the amazing helpfulness in enhancing the spray stability of printing machineries, the storage stability of inks and the print quality.



Physical & Chemical Properties

Properties	KJCMPA®-100	KJCBPA®-100	NMP
APHA	5	5	30
Boiling Point (°C)	215	252	204
Melting Point (°C)	<-80	-17	-24
Density (20°C:g/cm³)	0.99	0.94	1.03
Viscosity (20°C:mPa•s)	2.3	3.6	1.8
Surface Tension (23°C:mN/m)	34.2	29.3	38.6
Vapor Pressure (20°C:kPa)	0.076	0.002	0.032
Solubility Parameter	10.5	9.8	11.5
Flash Point (Open system:°C)	116	140	99
IMDG CODE	Combustible Liquid	Combustible Liquid	Combustible Liquid
Acute Effects : Mouse, oral LD50(mg/kg)	>2,000	300~2,000	3,500
Bacterial Mutagenicity (Ames Test)	Negative	Negative	Negative
Primary Irritation Index (P.I.I.)	0	N.A.	0.5

※ Please refer to the MSDS before using the products.

※ Registrations: (KJCMPA®-100) Korea(pre-registered), Japan, Taiwan, USA, EU
(KJCBPA®-100) Korea(pre-registered), Japan, Taiwan