



HYPALE CH and Hydrogenated Rosin Ester series

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HYPALE CH is a hydrogenated rosin. Hydrogenated Rosin Ester series are three different hydrogenated rosin esters. Ester Gum HD is a diethylene glycol ester of hydrogenated rosin. Ester Gum H is a glycerol ester of hydrogenated rosin. Ester Gum HP is a pentaerythritol ester of hydrogenated rosin.

Specifications

HYPALE CH (Hydrogenated rosin)

	Type	Appearance	Color (USDA)	Softening point (R&B, °C)	Acid Value (mg KOH / g)
HYPALE CH	Hydrogenated Rosin	Lump	WW min.	72 min.	157 min.

Hydrogenated rosin ester

	Type	Appearance	Color (USDA)	Softening point (R&B, °C)	Acid Value (mg KOH / g)
Ester Gum HD	Diethylene Glycerol Ester	Pale yellow Balsam	13 max. (Gardner)	-	18 max.
Ester Gum H	Glycerol Ester	Pale yellow Lump	WG or better	68 min.	10 max.
Ester Gum HP	Pentaerythritol Ester	Pale yellow Flake	M or better	80 min.	20 max.

General properties of HYPALE CH and Hydrogenated rosin ester

1. Solubility

	HYPALE CH	Ester Gum HD	Ester Gum H	Ester Gum HP
Benzene	S	S	S	S
Xylene	S	S	S	S
n-Hexane	S	S	S	S
Mineral spirit	S	S	S	S
Ethyl acetate	S	S	S	S
Butyl acetate	S	S	S	S
Acetone	S	S	S	S
Methyl ethyl ketone	S	S	S	S
Dioxin	S	S	S	S
Ethanol	S	S	I	I
Iso-Propanol	S	S	S	S
n-Butanol	S	S	S	S
Chloroform	S	S	S	S
Carbon tetrachloride	S	S	S	S
Pyridine	S	S	S	S
Carbon disulfide	S	S	S	S

Note:

#1. S...Soluble, P...Partially soluble, I...Insoluble

#2. The ration of solvent to resin is 4 : 1.

2. Compatibility

	HYPALE CH	Ester Gum HD	Ester Gum H	Ester Gum HP
Short oil alkyd	C	C	C	C
Long oil alkyd	C	C	C	C
Linseed oil	C	C	C	C
Soya oil	C	C	C	C
Polyterpene resin	C	C	C	C
Rosin	C	C	C	C
Ester gum	C	C	C	C
Polyvinyl chloride	C	C	C	C
100% Phenolic resin	C	C	C	C
Natural rubber	C	C	C	C
SBR	C	C	C	C
NBR	C	C	C	C
Butyl rubber	C	C	C	C
Chloroprene rubber	C	C	C	C

Note:

#1. C...Compatible, PC...Partially compatible, I...Incompatible

#2. Resin with Plasticizer or oil is once molten, and others are prepared in 40% xylene solution to be observed at the film state applied on a glass plate.