

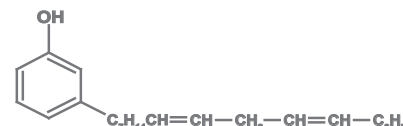
Cardolite[®] NX-2022

Multipurpose Resin Modifier

Technical Datasheet

DESCRIPTION

Cardolite NX-2022 is a low viscosity, light color multipurpose resin modifier and accelerator designed for use in coatings, adhesives, and other applications. The long hydrophobic aliphatic side chain of the cardanol molecule gives this product a very low viscosity and provides excellent early water resistance and corrosion protection. Used as an epoxy diluent and accelerator, high viscosity solvent or solvent free formulations can achieve enhanced workability, higher solids, and faster cure without sacrificing other performance properties using this product.



CHEMICAL STRUCTURE

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE	SPECIFICATION	TEST METHOD
Appearance	Yellow liquid		Visual
Color (Gardner)	5-8	≤8	ASTM D1544
Viscosity @ 25°C (cPs)	50	40-60	ASTM D2196
Solids (% weight)	99.5	≥97	ASTM D2369-98
Density @ 25°C (kg/L) (lbs/gal)	- -	- -	ASTM D1475
Flash point	>260°C / 500°F	-	ASTM D93
Recommended Use Level (% of total resin weight)	1-20	-	-
Shelf Life (Months)	2	-	-

¹Based on total product weight

APPLICATIONS

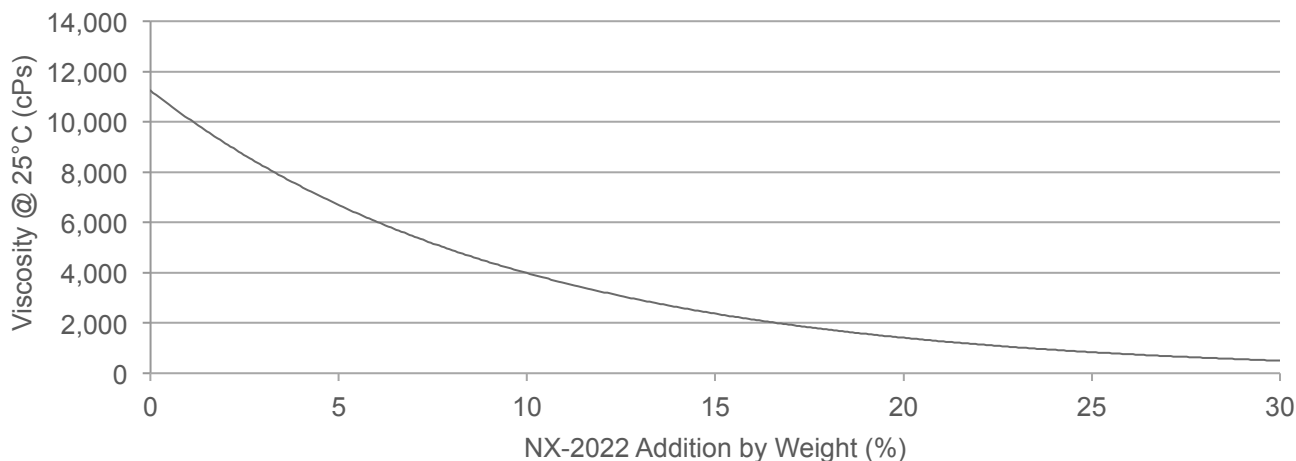
Cardolite NX-2022 was designed as an accelerator and formulation tool to reduce VOC levels and viscosity on coating systems used in heavy duty marine, protective, industrial, and floor coatings. Although higher in viscosity than some other modifiers, the structure of this product gives excellent dilution efficiency to help rapidly reduce viscosity for improved pigment wetting, flexibility, and general application properties. Coating physical properties such as water resistance, corrosion protection, color stability, chemical resistance, and gloss are not significantly compromised with the addition of NX-2022. This product can be added to either component of an epoxy system to provide good cure acceleration and replace or reduce levels of hazardous accelerators like nonylphenol. Cardolite NX-2022 can also be used in applications requiring FDA 175.300 compliance.

ADVANTAGES

- Lowers viscosity while maintaining performance
- Preserves chemical and water resistance
- Good dilution and acceleration effects
- Improves flexibility
- Improves pigment wetting properties
- Usable on both sides on an epoxy formulation
- Light color
- Low migration rate
- Low volatility and high flash point
- Non-toxic
- Based from natural, renewable, non-food raw material feedstock

DILUTION PROPERTIES

NX-2022 DILUTION CURVE WITH LIQUID EPOXY RESIN (EEW=190)



APPROVALS AND REGULATORY STATUS

Australia:	AICS	Japan:	MITI	Taiwan:	-
Canada:	-	Korea:	KECI	United States:	TSCA
China:	IECSC	New Zealand:	NZIoC	Other:	FDA Title 21 CFR 175.300
Europe:	REACH	Philippines:	PICCS		

SAFETY PRECAUTIONS

Please refer to the material safety data sheet (MSDS). Copies of the MSDS can be requested on the Cardolite website or via your local sales representative.

STABILITY AND STORAGE

Cardolite products may absorb moisture and carbon dioxide when left in open containers, which may result in increased viscosity, discoloration, reduction of reactivity, and/or crystallization of the products. These products should be kept tightly sealed in their original containers original containers when not in use, and stored in a cool, dry place.

CONTACT INFORMATION



<http://www.cardolite.com>

Cardolite Corporation
500 Doremus Avenue
Newark, NJ 07105
United States of America

T: +1-973-344-5015
F: +1-973-344-1197
info@cardolite.com

Cardolite Europe N.V.
Wijmenstraat 21 K Bus 2
B-9030 Mariakerke (Gent)
Belgium

T: +32-(9)-265-8820
F: +32-(9)-265-8829
info@be.cardolite.com

Cardolite Chemical Zhuhai Ltd.
Biyang Road
Harbor Industrial Zone
Zhuhai, Guangdong 519050
P.R. China
T: +86-756-726-9066
F: +86-756-726-9067
info@cardolite.com.cn

DISCLAIMER & COPYRIGHT

All statements, technical information and recommendations contained herein are based on tests Cardolite believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Actual test method procedures may differ from listed standards; major differences are noted. Limitation of liability and remedy: Purchase or use of these products constitutes an agreement with seller and manufacturer that, if the product proves to be defective or unsuitable, seller's and manufacturer's liability and the exclusive remedy, regardless of tort or contract theory or of incidental or consequential damages shall be to receive, at seller's or manufacturer's option, an equivalent quantity of replacement product or a refund of the purchase price. This datasheet is copyrighted to Cardolite Corporation and may be reproduced but not altered in any way.