

CYREZ[®] 400 Technical Datasheet

TYPE

Hexa methoxy methyl melamine

FORM OF DELIVERY (f.o.d.)

72% active on silica

PRODUCT DATA

The data are determined by our quality control for each lot (batch) before release.

Determined per batch:

Appearance [White free flowing powder] Pass Ash content Microwave [%] 24 - 28 800°C Water content Karl-Fischer [%] <= 4 Particle size Wet sieve test [%] >= 99.7 through 80 mesh

PROPERTIES AND USES

CYREZ 400 offers several advantages over the older hexa methylene tetramine (HEXA or HMT) system. CYREZ resins are not corrosive to steel cord, polyester cord or metal molds. This property is important when considering adhesion promoters. CYREZ resins are much more suitable as methylene donors, as opposed to HMT which produces ammonia. When used in conjunction with ALNOVOL® PN 760 or resorcinol, CYREZ resins offer the ultimate in rubber adhesion giving optimum bonding strength. No skin irritation.

- No amine or ammonia by-product
- Better scorch protection than provided by HMT
- No corrosive effects on steel and brass/bronze coated steel
- Ease of handling
- Low dust level
- High loading

CYREZ 400 is used in applications as a methylene donor in the "HRH" dry rubber adhesion systems for bonding rubber to organic cord and wire reinforcement materials. To improve adhesion as well as physical properties CYREZ 400 should be used together with silica in the compound.

Suggested levels of resins are:

CYREZ	1.5 - 4 phr
ALNOVOL PN 760	1.5 - 3 phr
or Resorcinol	1.5 - 3 phr
or Resorcinol formaldehyde resin	2 - 4 phr

CYREZ 400 can be used in conjunction with methylene acceptors (ALNOVOL® PN 160 or ALNOVOL® PN 320) in rubber compounds to increase modulus, tensile, stiffness and hardness. A suggested range could be 5 to 15 phr.

The ratio within this dosage should be ALNOVOL : CYREZ 7:3 (calculated on active).

STORAGE

At temperatures up to 35°C and by protection from sources of moisture storage stability in original containers amounts to at least 365 days. The expiration date may be extended and COA updated after QC testing of retained samples, only for material in allnex possession.

SAFETY AND HANDLING

Please consult the Safety Data Sheet (SDS) for safety, health, and environmental data available from allnex.

1.0 / 25.02.2022 (replaces all previous versions)

Worldwide Contact Info: www.allnex.com

Page 1/1

Disclaimer: allnex Group companies ('allnex') exclude all liability with respect to the use made by anyone of the information contained herein. The information contained herein represents allnex's best knowledge but does not constitute any express or implied guarantee or warranty as to the accuracy, the completeness or relevance of the data set out herein. Nothing contained herein shall be construed as conferring any license or right under any patent or other intellectual property rights of allnex or of any third party. The information relevance of the products is given for information is suitable for any specific use, performance or result. Any unauthorized use of the product or information may infringe the intellectual property rights of allnex, including its patent rights. The user should perform his/her own tests to determine the suitability for a particular purpose. The final choice of use of a product and/or information as well as the investigation of any possible violation of intellectual property rights or misappropriation of trade secrets of allnex and/or third parties remain the sole responsibility of the user. Notice: Trademarks indicated with *, TM or * as well as the allnex name and logo are registered, unregistered or pending trademarks of Allnex Netherlands B.V. or its directly affiliated allnex Group companies. ©2022 allnex Group. All Rights Reserved.

USES

Hexa methoxy methyl melamine (HMMM) as crosslinker for adhesion promoting and reinforcing systems in rubber applications