CYREZ® CRA 200-300 Product Family (72% HMMM)

Technical Datasheet

TYPE

HMMM powder

FORM OF DELIVERY (f.o.d.)

72 % active on precipitated silica (white free flowing powder)

SPECIAL PROPERTIES AND USES

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

TYPICAL PROPERTIES

Determined per batch:		
Ash content		
Microwave - 800°C	[%]	24 - 28
Water content		
Karl-Fischer	[%]	≤ 4
Particle size		
Wet sieve test - through 80 mesh	[%]	≥ 99.7

SUGGESTED USES AND PROCESSING

CYREZ® CRA-200S finds wide application as adhesion promoter or crosslinker in the "HRH" dry rubber adhesion systems for bonding rubber to organic cord and wire reinforcement materials.
CYREZ® CRA-200S (HMMM) offers several advantages over the older hexa methylene tetramine (HEXA or HMT) system. CYREZ® resins are relatively nontoxic and present little hazard of dermatitis. An additional advantage is that they 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® resin offers 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

This product can also be used in conjunction with methylene acceptors (ALNOVOL® PN 760 or Resorcinol) in rubber compounds to increase modulus, tensile, stiffness and hardness. CYREZ® CRA-200S can be used at the following levels for initial evaluations.
To improve adhesion as well as physical properties CYREZ® CRA-200S should be used together with silica in the compound. A suggested range could be 5 to 15 phr.

SUGGESTED LEVELS

CYREZ® CRA-200S	2 - 5 phr
Alnovol PN 760	1.5 - 3 phr
or	
Resorcinol	1,5 - 3 phr
or	
Resorcinol formaldehyde resin	2 - 4 phr

STORAGE

At temperatures up to 35°C storage stability in original containers amounts to at least 365 days.

HEALTH AND SAFETY INFORMATION

Before using this product, refer to the corresponding allnex safety data sheet (SDS) to obtain additional information.