

allnex ALNOVOL[®] Performance Resins Resins for More Eco-Friendly Rubber & Tire Systems

	Product	• ALNOVOL® PN 760 • Resorcinol free resin for rubber steel and textile cord adhesion	 ALNOVOL[®] UF 410 RPC Effective oil replacement resin for rubber processing Available on silica as carrier
	Overview	 Modified phenol novalac used in rubber compounding as an adhesion promoter to steel and textile cords More environmentally friendly alternative to resorcinol or resorcinol-based resins with similar or improved performance properties 	 Solvent-free carbamic resin combining properties of a processing add & reinforcer Reduces compound viscosity, improves hardness and textile cord adhesion Processing oil replacement in Apex, Bead and Textile cord compounds while still providing favorable processing characteristics
F	Value Proposition	 Improved adhesion & aging performance Resorcinol-free system Low vapor and odor during rubber processing due to low free monomer content Improves scorch and green compound aging properties 	 Processing oil replacement providing new opportunities in rubber compounding Delivers hardness & modulus by keeping Mooney and Elongation at break stable Compatible with most rubbers Organic solvent-free, fast, heat resistant and stable against hydrolysis

Resins part of Allnex's portfolio of products developed specifically for the rubber industry
 Additional technical literature & samples are available upon request evaluations



Allnex Tire Resins

Resins designed to meet needs of the tire industry

- ALNOVOL Phenolic Resins
- CYREZ Amino (HMMM) Crosslinkers

Provide rubber processing advantages with respect to reinforcement, hardening and adhesion promotion

Portfolio focus on providing system cost and environmental performance advantages

Product Name	e Reinforcement	Cord Adhesion Promoter	HMMM Hardener
ALNOVOL PN 1	50 X		
ALNOVOL PN 3	20 X		
ALNOVOL PN 7	50	x	
ALNOVOL VPN 1	132 X		
CYREZ 963E/ 96 LIQUID RESIN / 9		x	x
CYREZ 964 LF/9 RPC	54	x	x
CYREZ CRA-20 CRA-200S	D	х	х
ALNOVOL UF 4	10 X	Х	