

# Steer with cobalt-free Next Generation tire cord adhesion

allnex ALNOVOL<sup>®</sup> PN 870 allows substituting chemicals of concern without sacrificing performance

Based on modified phenolic resin, our Next Generation adhesion promoter offers an easy-to-use, all-in-one replacement for cobalt salts and resorcinol in rubber-to-steel-cord adhesion systems.

## Features

No cobalt salt and no fuming

Improved scorch and reversion resistance

Less corrosion on steel cord

Comparable reactivity and adhesion promotion

Replacement of cobalt salts

## Benefits

Improves environmental and health impact

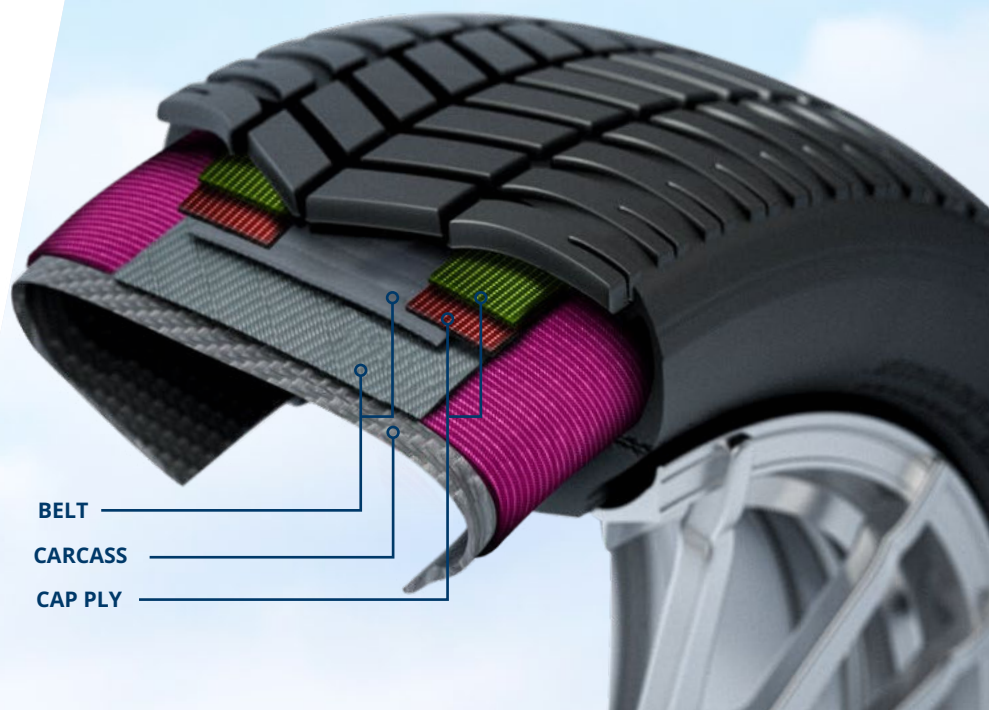
Higher tolerances in compound design

Improved adhesion during aging

Easy-to-use package solution for tire manufacturers

Improved formulation costs

**allnex additives improve adhesion** at the interface between rubber and steel cord. Low amounts (< 1% of total tire weight) have **crucial impact on safety and performance of tires**



BELT

CARCASS

CAP PLY



## Allnex Management GmbH

The Squire 13, Am Flughafen  
60549 Frankfurt am Main, Germany



Contact:

**Roberto Blanco Trillo**

Email: [Roberto.Blanco-Trillo@allnex.com](mailto:Roberto.Blanco-Trillo@allnex.com)



### Want to know more?

The QR-code leads to our web page where you'll find more information.

[www.allnex.com](http://www.allnex.com)

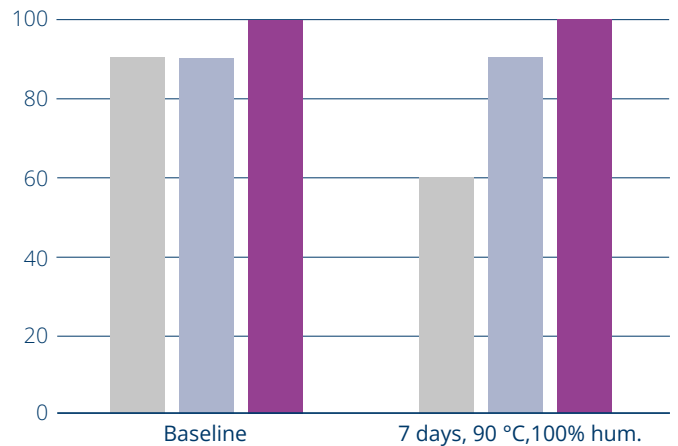
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■ Formulation w/o Co  
■ Formulation with Co  
■ Formulation with ALNOVOL® PN 870

### Rubber coverage

PERCENT [%]



### Adhesion performance

PULL-OUT FORCE [N]

