



**High-performance  
elastomer molded parts  
made of ACLATHAN®  
for the railway industry**



Industry Information



# High-performance elastomer molded parts made of ACLATHAN® for the railway industry

## Vibration-damping and wear-reducing polyurethane rings for use in bogie frames of locomotives, passenger and freight cars

### ACLA's PU molded parts are used worldwide in numerous industrial applications

As one of Europe's leading manufacturers and developers of technical products made from polyurethane elastomers, ACLA-WERKE GMBH has been offering a high-quality product range for various industrial applications for over six decades.

Whenever wear resistance is required, ACLA's high-quality PU molded parts are the solution of choice.

### High-performance PU molded parts for railway applications

Especially in wear-intensive rail transport, ACLA's proven polyurethane products can fully leverage their specific material advantages. Ring elements made from ACLATHAN are the best example of this.

### Material expertise at the highest level

As a plastics manufacturer with in-house formulation development and over 60 years of experience in processing plastics and PU elastomers, ACLA-WERKE is capable of producing products that meet the specific demands of the railway industry.

For the special requirements of rail transport, ACLA-WERKE GMBH uses polyurethane elastomers that are specially formulated to suit the needs of the railway industry.

Further information on the specific material properties of ACLATHAN is available upon request.

### Application in bogie frames

Ring elements made from ACLATHAN, a PU elastomer based on NDI, are used in bogie frames of locomotives, passenger, and freight cars. They are employed in the secondary suspension at the central pivot point, where they are subjected to extreme radial and torsional forces as well as various environmental influences.

### Exceptional tensile strength

The ring elements, used in the spring suspension as spacers, vibration dampers, and shock absorbers, reliably prevent wear that would otherwise occur with metal-to-metal contact.

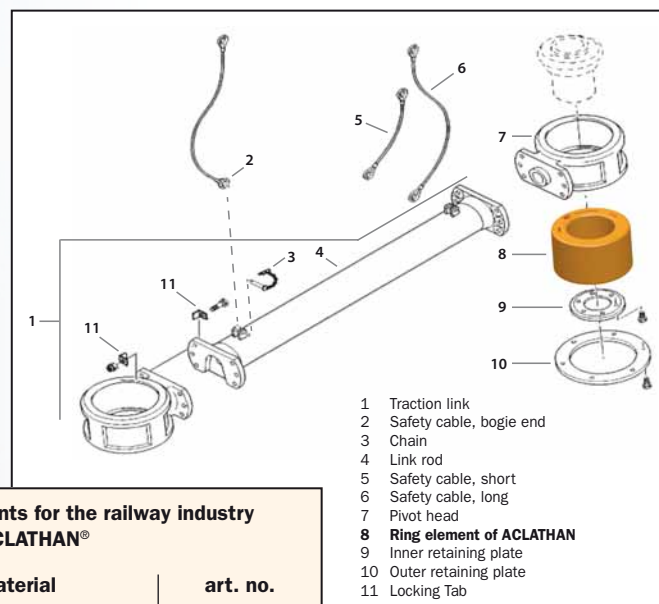
ACLATHAN ring elements are designed to withstand the enormous tensile loads of all common bogies. They also endure high deflections without permanent deformations or material damage.

### Excellent resistance to external influences

ACLATHAN performs well even under adverse conditions such as dust, moisture, and salt air. The material is hydrolysis-resistant and resistant to oils, greases, and waste. The operating temperature range is from -40°C to +70°C.

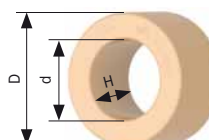


Installation situation of the ACLATHAN ring element in the bogie



Delivery program ring elements for the railway industry made of ACLATHAN®		
dimension [mm] D/d x H	material	art. no.
250/150 x 144	ACLATHAN 2300-H	196 635
250/150 x 144	ACLATHAN 2100-H	196 700.03
320/190 x 166	ACLATHAN 2500-H	196 678.02

Please contact us for other dimensions/designs.



Find out more about our diverse product range of technical articles made of PU elastomers on our homepage.

