

Sustainable Transport Protection for Steel Coil Freight Cars

Maintenance-free bearing solution with verified long-term quality



Installation of the elastic freight car liner with Sylomer[®]



Consistent long-term quality after 9 years with Sylomer[®]

Description of the project

A manufacturer of steel sheets had struggled for years with the fact that the steel coils were repeatedly being damaged in transit. Since they were frequently being transported across Europe on freight cars, the outermost layers were being exposed to impacts and shocks during transit and damaged as a result. For many customers, such damage meant that the sheets did not comply with the material requirements and the steel manufacturer would not accept responsibility for the cost of the outermost layers.

Proven quality after 9 years

Nine years after the installation of the Sylomer[®] solution in 200 freight cars, testing of the transport protection revealed that the material thickness had not changed and none of the material was damaged or needed replacing. We can therefore conclude that the current material properties of the Sylomer[®] are almost identical to when it was installed. This confirms the consistent long-term quality of the effective Sylomer[®] and wearing protection solution from Getzner.

Feedback

"The transport damage to the steel coils and the maintenance work required have been reduced to a minimum. In addition, Sylomer[®] is displaying next to no wear after 9 years and can continue to be used in the future without any problems," says Stefan Luif, Head of Maintenance at Rail Cargo Wagon - Austria GmbH.



Flawless and undamaged bearings



The material shows long-term resistance



Unchanged material quality after 9 years

Getzner solution

In 2010, the ÖBB commissioned Tatravagonka, a Slovakian manufacturer of rail freight vehicles, to install Getzner Sylomer® in 200 of its carriages. The chosen material was matched to the weight of the steel coils in order to isolate the vibrations generated by the vehicle's underbody and to minimise the number of impacts on the material. In addition, a compact PU wearing coat was applied to the Sylomer® mats. This layer prevents any sharp edges on the steel coils damaging the PU material and increases the service life of the bearings. By using Sylomer®, the steel coils can be transported without becoming damaged, thus saving costs.

Advantages

- Prevents damage during transport
- Increased protection against wear
- Maintenance-free
- Resistant to oil and hydrolysis
- Proven long-term behaviour
- Individual manufacturing with custom solutions