



## HINOX – a new high temperature resistant shim

A recently released product from Trelleborg Automotive Kalmar is the new HINOX material. An innovative fibre reinforced material for high temperature shim applications.

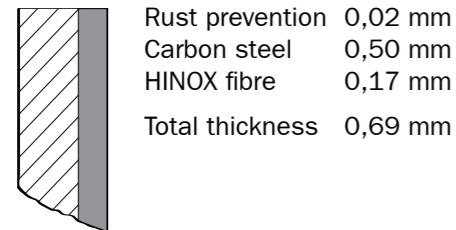
### Materials that creates new solutions

HINOX has been proven as an excellent material where extreme heat resistance is required. We can offer several new and innovative solutions for various higher temperature brake shim applications.

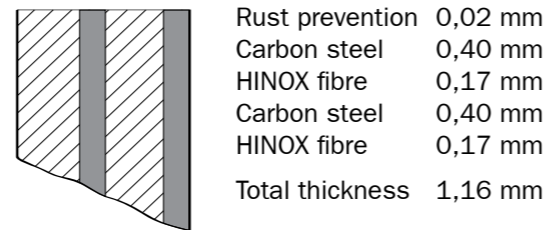
#### Light Vehicles Examples

Material cross section, material layers and thickness

##### HINOX 01 50



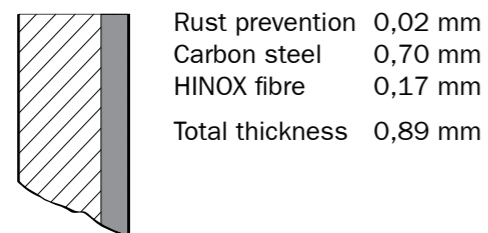
##### HINOX 02 44



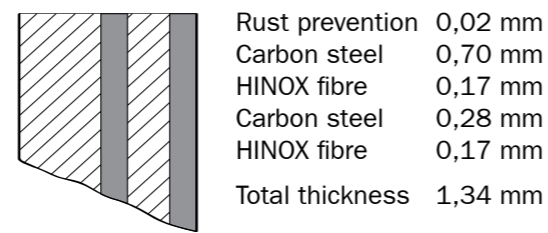
#### Commercial Vehicles Examples

Material cross section, material layers and thickness

##### HINOX 01 70



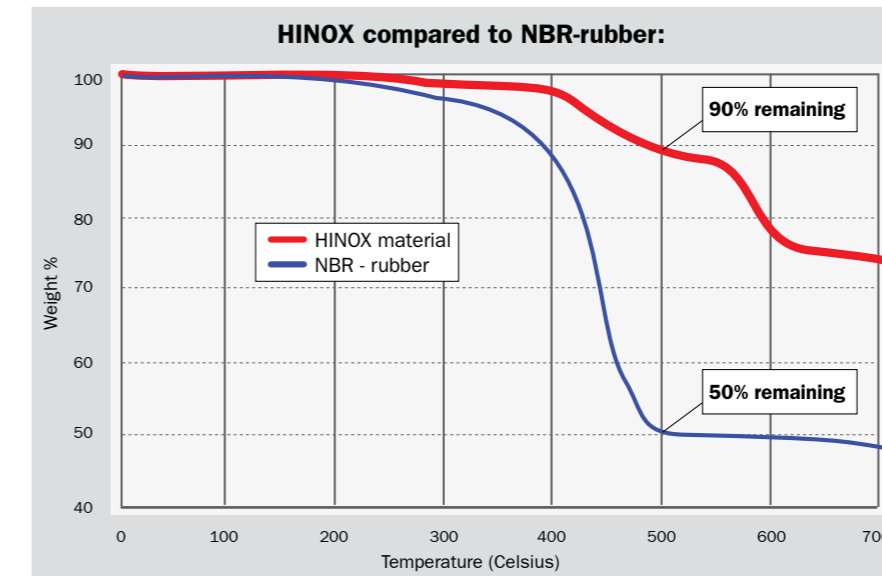
##### HINOX 02 73



Shims must be designed with mechanical fastening to secure the material from shifting or butterflying, preferably with riveted internal or external pins.

## The HINOX concept

- ▼ An innovative material with excellent resistance to high temperatures (>450°C/840°F)
- ▼ Optimum heat performance compared to other rubber materials
- ▼ Superior noise capabilities after extended high heat exposure
- ▼ A robust solution with excellent NVH performance after high heat exposure
- ▼ Superior durability



Some call it extremely resistant  
We call it **HINOX**



# Brake Noise Bulletin

**Trelleborg Automotive** *Your partner from start to finish*



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## HINOX

– a new high temperature resistant shim



**-30°C  
to  
+450°C**

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