

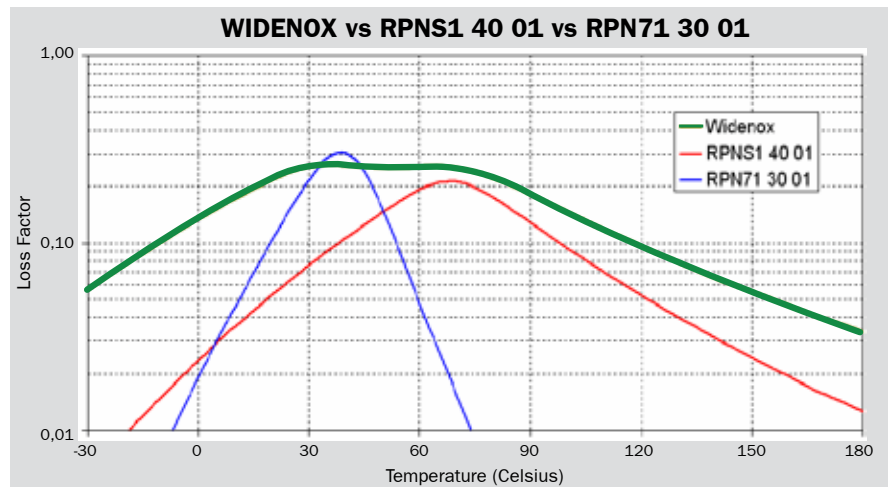
Brake Noise Bulletin

Trelleborg Automotive *Your partner from start to finish*

WIDENOX – a new shim with broadband damping properties

In brake applications where wide temperature range and highest performance is required.

WIDENOX - a new innovative shim material with damping properties over a wider temperature range, Trelleborg Automotive Kalmar now introduces a superior ground-breaking material.



The **WIDENOX** concept

- ▼ **A brand new outstanding shim material with damping properties over a wider temperature range**
- ▼ **ONE shim material for all possible NVH solutions**
- ▼ **Superior durability & corrosion resistance**
Excellent resistance to piston penetration and wear
- ▼ **A robust solution with excellent NVH performance**



Some call it a widely broadband damping shim material.

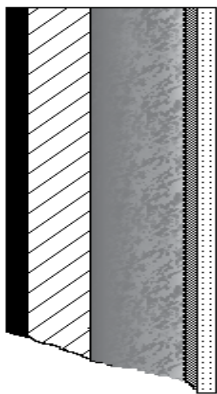
We call it **WIDENOX**

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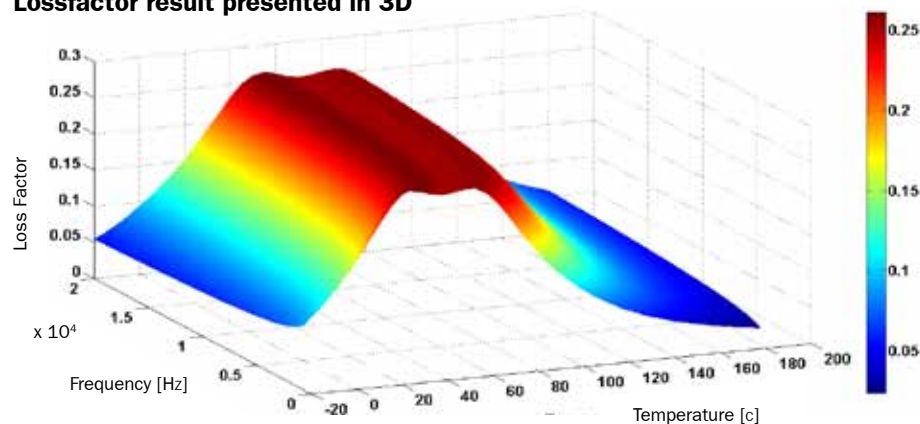
WIDENOX – a new shim with broadband damping properties

Material cross section Material layers, standard thickness



Fibre reinforced rubber	0,15 mm	<i>Shims must be designed with mechanical fastening to secure the material from shifting or butterflying, preferably with riveted internal or external pins. Rivets must be peened enough to ensure contact between adhesive and backplate surface.</i>
Carbon steel	0,40 mm	
Damping structure	0,635 mm	
Bonding damping	0,035 mm	
Liner	0,13 mm	
Total thickness (excl. liner)	1,22 mm	

Lossfactor result presented in 3D



Europe

Germany
Trelleborg Automotive Kalmar AB
Kléberstrasse 2
D-40822 Mettman
Germany
Phone: +49 2104 217 261
Fax: +49 2104 217 229
kai.koppers@trelleborg.com

Italy
Trelleborg Automotive Kalmar AB
Via Sen. A. Toselli 3
12100 Cuneo
Italy
Phone: +39 0171 605 511
Fax: +39 0171 609 662
alessandro.baggi@trelleborg.com

France
Trelleborg Automotive Kalmar AB
38, Rue Jean Mermoz - BP 106
78602 Maisons-Laffitte Cedex
France
Phone: +33 1 30 86 72 56
Fax: +33 1 39 13 56 06
giuseppe.percio@trelleborg.com

United Kingdom
Trelleborg Automotive Kalmar AB
15, Alsfield Way, New Mills,
High Peak, Derbyshire
SK22 3DD, UK
Phone: +44 1663 742 113
malcolm.brew@trelleborg.com
malcolm.brew@dsl.pipex.com

Americas

USA
Trelleborg Automotive Northville Inc
15701 Centennial Drive
Northville, MI 48168
USA
Phone: +1 734 354 1250
Fax: +1 734 354 1251
john.bennett@trelleborg.com

South America
Trelleborg Automotive Northville Inc
Av. Betsaida, 176 Jd. Betania
18071-490, Sorocaba-SP
Brazil
Phone: +55 15 3223 3459
Mobile: +55 11 8212 0591
julio.sotratti@trelleborg.com

Australia
Trelleborg Automotive Melbourne Pty Ltd.
141 Osborne Street
South Yarra 3141, Melbourne
Australia
Phone: +61 3 9279 3956
Fax: +61 3 9866 7277
jarnestrom@trelleborg.com.au

Asia

China
Trelleborg Automotive Shanghai Holdings AB,
5118 Yuan Jiang Road
Xin Zhuang Industrial Park
Shanghai 201108
China
Phone: +86 21 6145 1830*237
Fax: +86 21 6145 1833
louis.gu@trelleborg.com

China
Trelleborg Automotive Shanghai Holdings AB
922 Room Shangri-La Hotel
569 Xian Road
Changchun 130061
China
Phone: +86 431 8859 7388
Fax: +86 431 8859 0800
yao.weidong@trelleborg.com

Japan
Trelleborg Japan KK
KDX Shin-Yokohama 381 Bldg.7F
3-8-11 Shin-Yokohama
Kohoku-ku Yokohama-shi
222-0033 Japan
Phone: +81 45 478 0732
Fax: +81 45 478 0736
yoshinori.sano@trelleborg.com

Korea
Trelleborg Automotive Korea
#1101, Inyoung Building,
44-11 Yeouido-dong,
Yeongdeungpo-gu,
Seoul, South Korea (150-890)
Phone: +82 31 386 3864
Fax: +82 31 386 3287
alex.kim@trelleborg.com