

griwecolor GmbH

Quiet Travel, Safe Travel: griwephon® AN2-800 & AN2-900 Sets New Standards in Railway Comfort

In a world where mobility is accelerating, comfort and tranquillity are becoming essential.

griwecolor GmbH introduces two advanced sound deadening solutions – griwephon® AN2-800 and griwephon® AN2-900 – designed to transform railway travel into a peaceful and safe experience.

Silence That Moves You

Whether commuting to work or embarking on a long-distance journey, passengers increasingly seek quiet environments to read, rest or focus. The rhythmic hum of train wheels and the vibration of metal panels can disrupt this serenity. griwephon® coatings absorb these structure-borne noises, creating a calm acoustic atmosphere that enhances the feeling of space and well-being inside the cabin.

Silence is not a luxury – it's a necessity for modern travel. A quieter cabin allows passengers to enjoy conversations without raising their voices, listen to music or podcasts with clarity, and experience a sense of privacy even in shared spaces.

Emotional and Practical Benefits of Quiet Travel

Quiet environments contribute to reduced stress levels, better sleep quality and improved mental health. For business travellers, reduced noise means increased

productivity – enabling focused work, video calls and uninterrupted reading. Families benefit from a more relaxed atmosphere, where children can nap and parents can unwind.

In addition, quiet travel enhances the overall perception of quality and luxury. Passengers associate silence with technological advancement and thoughtful design, making griwephon® a key contributor to brand reputation and customer satisfaction.

Why griwephon® Makes a Difference

Reduced Vibrational Noise:

Applied directly to metal surfaces, griwephon® transforms high-frequency vibrations into low-frequency energy, significantly reducing audible noise.

Improved Passenger Well-being:









Less noise means less stress, better sleep and improved concentration – especially in designated quiet zones.

Design Freedom:

Enables lightweight construction without compromising acoustic comfort.

Enhanced Safety:

Certified fire protection and low smoke toxicity ensure compliance with the highest railway standards.

	Railway Vehicles		Structural Engineering	
<i>griwephon</i> [®]	AN2-800	AN2-900	AN2-701	AN2-750/EU
Main application	Railway Vehicles	Railway Vehicles	Structural Engineering	Structural Engineering
Density (dry)	~1,2 g/cm ³	~0,8 g/cm ³	~1,3 g/cm ³	~1,3 g/cm ³
Standard	EN 45545-2:2020, EN 45545-2:2023	EN 45545-2:2020, EN 45545-2:2023	DIN 4102-1	DIN EN 13501-1
Classification	DIN 5510 Part 2 Flammability class S4	DIN 5510 Part 2 Flammability class S4	B1 flame retardant	A2-s1; d0 non-flammable
recoatable				
Condensation absorption	hydrophobic	hydrophobic		
Toxicity test according to DIN EN ISO 5659-2	R1, R2, R3, R6, R7, R17 / HL3	R1, R2, R3, R6, R7, R17 / HL3	—	R1, R2, R3, R6, R7, R17 / HL3
Building authority approval	—	—		

Technical Highlights

- AN2-800 Dry Density: approx. 1.2 g/cm³
- AN2-900 Dry Density: approx. 0.8 g/cm³
- Loss Factor: 0.20 (AN2-800), 0.22 (AN2-900) per DIN EN ISO 6721-3
- Fire Protection: DIN 5510 Part 2, Class S4
- Standards: EN 45545-2:2020 & 2023 (HL1–HL3, R1–R17)
- VOC Content: < 0.6 g/l
- Application: Manual or mechanical, up to 5mm wet layer in one pass
- Weight Saving: Up to 40% with AN2-900

Application Areas

- High-speed trains, metros, light rail
- Wagon and container construction
- Shipbuilding and vehicle construction
- Plant and equipment engineering

About griwecolor GmbH

Founded in 1996 in Germany's Black Forest region,

griwecolor GmbH stands for innovation, sustainability and precision. With a team of 15 specialists, the company develops water-based paints and coatings that meet the highest standards in industry and transportation. *griwephon*[®] is part of a broader portfolio that includes solutions for home & living, marking systems, plant fortification and creative applications.

For more information contact us

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A young boy with short brown hair and blue eyes, wearing a red and blue plaid shirt, is looking out of a window. The background shows a blurred outdoor scene with trees and a building.

griwephon product series



**Innovative noise
and fire protection
for rail vehicles**

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