FIRES IN ROLLING STOCK THREATEN PEOPLE AND THE ENVIRONMENT





BATEGU-rubber-/rubber-metal-components meet the highest quality and safety requirements for more than 60 years. The EN 45545-compliant materials of the types BTG®9713 and BTG®9559 developed by BATEGU allow the production of EN 45545-compliant anti-vibration components, in particular for use in bogies.

BATEGU-RUBBER-/RUBBER-METAL-COMPONENTS FOR BOGIES COMPLY WITH THE R9 TEST REQUIREMENTS ACCORDING TO EN 45545



By using the BTG®9713 and BTG®9559 materials developed by BATEGU® it is possible for the first time since 2011 to produce rubber-/rubber-metal-components specifically anti-vibration components that meet the mechanical and dynamic properties required for use in bogies and additional fire safety requirements of EN 45545. In case of fire, life-threatening or other serious adverse health effects for people can thus be contained without having to give up the dynamic-mechanical properties, comfort and longevity of the components.

WORLDWIDE LEADER

BATEGU has worldwide the largest range of EN 45545-compliant elastomer materials (hardness 40 to 85 shore A +/-5), EN-compliant according to R9 with a hazard level of 2 or 3. With this variety of materials just about any anti-vibration component (rubber-/metal-component) used in rail vehicles can be produced, both for Original equipment manufacturers and spare parts.

UPGRADE OF EXISTING BOGIES/VEHICLES

Existing components can be produced 1:1 EN 45545-compliant maintaining or improving properties and not altering the installation space required. For this purpose, existing vulcanisation tools can be used.

ADVANTAGES:

- Excellent compression set
- Very low damping (hysteresis) and low self-heating
- High elasticity
- High resistance to the development and growth of cracks
- Excellent ozone, ageing and weather resistance and media resistance (e.g. detergents, salt)
- Heat resistant: -50 °C to + 120 °C (continuous operation)

- No constructive changes required (for existing components)
- Maintenance-free
- Lowest toxicity and smoke density
- · No corrosive combustion gases, no dripping
- All BATEGU elastomer materials are tested to EN 45545-2:2013
- RoHS Directive, REACH Regulation and Unife Railway Industry Substance List are fulfilled

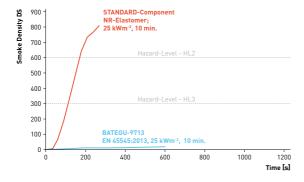
TYPICAL APPLICATIONS:

- Rubber metal springs
- Bushings
- · Wheelset springs

- Laminated springs
- Dog-bone bushings
- · Lateral bumpers

- Conical springs
- Gaskets
- · Spherical bearings

EN ISO 45659-2, SMOKE DENSITY



Test method/ Test result	BATEGU 9713	BATEGU 9559
ISO 5660-1: Rate of heat release	HL 2/3	HL 2/3
ISO 5659-2: Optical smoke density	HL 2/3	HL 2/3
ISO 5659-2: Toxicity	HL 2/3	HL 2/3
HL 2/3: depending on the shore hardness Testing institute: OFI Technologie & Innovation GmbH. Versuchsanstalt TGM Kunststofftechnik		

For further information please contact our Application Technology department. We look forward to receiving your enquiry.

BATEGU Gummitechnologie GmbH, Muthgasse 22, 1190 Vienna, Austria

Contact: Mr. Michael Luznjanin, Tel. +43 (0) 1 368 21 53-23, michael.luznjanin@bategu.at, www.bategu.at