

# AGRO cable glands for railway vehicles now certified acc. to CEN/TS 45545-2



## AGRO cable glands now certified according to CEN/TS 45545-2 defining fire protection measures in railway vehicles



A number of fires in rail traffic have raised questions about safety in the minds of both those responsible for the systems and the public. Even small fires can quickly take on the dimension of a catastrophe because of the many people being conveyed or large amount of freight transported, especially if such accidents occur in tunnels. The most frequent causes of fire are defects in electrical systems or the negligent setting of fires. Thus, an increasing number of vehicle manufacturers and transportation companies require that materials and components used in domestic and international rail traffic fulfil the requirements of technical specification CEN/TS 45545, which in Part 2 defines fire safety requirements.

Because AGRO strives to play a leading role as a supplier to the vehicle construction sector, the company has had its cable glands and sealing inserts examined by the prestigious test laboratory RST Rail System Testing GmbH. By achieving excellent results, these AGRO products have earned the CEN/TS 45545-2 certificate for railway vehicles.

In the test procedures for CEN/TS 45545, materials and components are differentiated according to operating and design classes to determine where they fit within various hazard levels as predefined in the requirements profile.

**Top fire protection results for AGRO Progress® cable glands made of metal** AGRO Progress® cable glands made of metal with sealing inserts made of FPM and intumescent materials fulfil the most stringent requirements for fire protection and thus have become the undisputed first choice for all applications and configurations in railway vehicles. Their excellent compression technology ensures tight seals and a strain relief which



is exceptionally easy on cables, even in dynamic applications.

## Cable glands and cable bundling in railway vehicles



Standard cable glands as well as EMC applications with the corresponding accessories make up the basic range of products for most applications and configurations, but AGRO also offers customer-specific designs as required.

### **Application areas for AGRO Progress® cable glands made of plastic**



From a fire protection point of view, AGRO Progress® cable glands made of plastic can also be used in the railway vehicle sector without any problems if the required physical separation of flammable materials located next to each other is observed along with other installation regulations for small-scale materials. Within standard CEN/TS 45545-2, these regulations define the established mass per application area as follows:  
Regulations for small-scale materials in exteri-

or areas and engineering areas: For flammable masses < 400 g which are outside the vehicle or in engineering rooms, no requirements are placed on the materials. Thus, by fulfilling the mass requirements, use for Hazard Levels HL1 to HL3 is permitted.

Regulations for small-scale materials in interior areas: For flammable masses < 100 g which are inside the vehicle, no requirements are placed on the materials. Thus, by fulfilling the mass requirements, use for Hazard Levels HL1 to HL3 is permitted.

Certification according to CEN/TS 45545-2 is opening up additional significant sales potential for AGRO cable glands in a future-oriented market segment and strengthens the company in its international activities. Since 1953, AGRO has designed and manufactured high-quality innovative solutions for electrical installations and cable guides in industrial applications. AGRO, with its headquarters in Hunzenschwil, is part of the Kaiser Group of companies.

# Systems and solutions

## for professional cable introduction.



**Progress® cable glands** made of plastic or metal are proven aids for professional cable routing in industrial plants. The excellent compression technology ensures tight seals and strain relief which is exceptionally easy on cables.



**Progress® EMC cable glands** made of brass ensure a low-impedance connection between the braided shield and the metal chassis while maintaining secure cable introduction.



**Elbows and flanges** to add changes of direction in switching cabinets and chassis.



**Accessories:** locknuts, reduction fittings, locking screws, ...

### Technical information and advice

Please find additional information about products, system solutions and communication media on our website: [www.agro.ch](http://www.agro.ch)

For additional questions or information our technical staff will be available and would be pleased to talk with you.

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