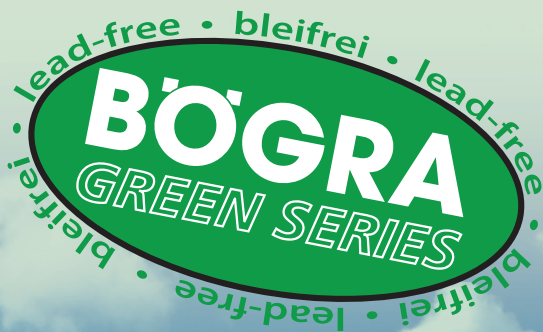


# BÖGRA

competence in bronze

Your Partner for an  
uncomplicated transition  
to Lead-Free products

Lead-Free in the future





## **European Law Amendment Government Law changes**

### **Changeover to Lead-Free products for 2011**

On 1 August 2008 the European Union Commission decided on Lead-Free Bearings and Bushings in the Motor, transmission and compressors for Air Conditioning.

This Government requirement takes effect on 01 July 2011.



In order to make sure the changeover to lead-free alloys meets the 1st July 2011 deadline, it is advised to begin the changeover process as early as possible to validate lead-free alloys:

**product development**

**product process and product approval**

**material test (engine test stand/endurance test)**

**change of production process**

**release and implementation**

It is possible that unforeseen time and effort could be required during the changeover to lead-free alloys due to the complexities of implementation.

We solve these problems for you!

BÖGRA Technologie as one of Germany's largest producers of bronze / brass plain bearings has over 15 years experience in the development and production of lead-free materials.

Our lead-free materials have been proven and tested a million fold during this period, e.g. as con-rod bushings for high-pressure diesel/turbo engines.

We will be more than pleased to support you with the changeover.

Our manufacturing program includes:

- Continuous casting
- Gravity die casting
- Plain and finished parts
- Combined bearings
- System solutions



# BÖGRA ...

## This is competence in Bronze.

With two Foundry plants and an extensive machining center, for three generations Boegra has exceeded the highest requirements for the automotive and many other industries.

Our high quality requirements and specifications set our standard.

Boegra is certified to the following standards  
DIN EN ISO 9001:2008,  
ISO/TS 16949:2002 and  
ISO 14001:2004



**Do you require more  
information regarding  
BÖGRA Technologie GmbH  
or BÖGRA Green Series?**

**Our TEAM is ready for your  
requirements.**

BÖGRA Technologie GmbH  
Georgestraße 5-7  
D-42719 Solingen

Tel.: +49 (0) 212 - 381 - 0

Fax: +49 (0) 212 - 381 - 180

E-Mail: [info@boegra.com](mailto:info@boegra.com)

[www.boegra.com](http://www.boegra.com)

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