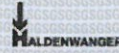


Certificate DE17/819943557

The management system of



Morgan Advanced Materials Haldenwanger GmbH

Teplitzer Straße 27
D-84478 Waldkraiburg



has been assessed and certified as meeting the requirements of

ISO 50001:2011

For the following activities

**The manufacturing and sale of technical ceramics
for industrial applications**

This certificate is valid from 11.12.2017 until 10.12.2018 and remains valid
subject to satisfactory surveillance audits.
Recertification audit due before 12.10.2018

Issue 1

The audit leading to this certificate commenced on 11.10.2017
Previous issue certificate validity date was until 10.12.2017

Authorised by

ppa Jan Meemken
Director CBE Germany

Hagen Senne
Head of Certification Body



Deutsche
Akkreditierungsstelle
D-ZM-12088-01-00

SGS-TÜV Saar GmbH

Am TÜV 1 66280 Sulzbach (Germany)

e-mail: de.cbe.zertifizierung@sgs.com www.sgs-tuev-saar.com

Page 1 of 1



This document is issued by the Company subject to its General Conditions of Certification Services accessible at www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein. The authenticity of this document may be verified at <http://www.sgs.com/en/certified-clients-and-products/certified-client-directory>. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.