

TYPE EXAMINATION CERTIFICATE

This is to certify:**That the Brake Lining**with type designation(s)
M9020

Issued to

**Kühne Intertech GmbH
Hamburg, Germany**

is found to comply with

DIN 15436 (1989-01) Power transmission engineering; drum- and disc brakes; technical requirements for brake linings**Application :****Non - asbestos woven brake lining for winches, cranes and windlasses**Issued at **Hamburg** on **2018-04-19**This Certificate is valid until **2022-09-30**.DNV GL local station: **Hamburg**for **DNV GL**Approval Engineer: **Joachim Rehbein**

**Thorsten Lohmann
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Examination Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-028755-1**
Certificate No: **TAS00001F0**

Product description

M9020: Asbestos-free brake lining material reinforced with brass wire

Application/Limitation

Non – asbestos woven brake lining for winches, cranes, windlasses.

Any significant changes in design and/or quality of the material will render the approval invalid.

Maximum working temperature:	280°C
Maximum continuous working temperature:	250°C
Maximum continuous working pressure:	3.5 MPa

This approval is a prolongation of certificate KBZ 1245 HH

Type Examination documentation

Tests carried out

Testing carried out according to **Type Approval documentation**.

Marking of product

Product shall be marked with *manufacturer's name* and *type designation*.

Periodical assessment

The scope of the Periodical Assessment is to verify that the conditions stipulated for the Type Examination is complied with and that no alterations are made to the product design or choice of materials.

Periodical assessments will be carried out bi-yearly. When possible, this assessment may be harmonised with normal surveys for product certification and / or other surveys and audits carried out.

END OF CERTIFICATE