



JuRAL

High Alumina Bricks

**Specific solution for all applications
where the purest refractory is essential**



Ju[enger+Graeter] + R[ich] + AL[Alumina] = JuRAL

J+G concentrates his expertise in special refractory products. With the JuRAL-series we have created unique high end products for highest temperature and special atmospheric conditions. With outstanding chemical and mechanical properties, excellent thermal shock behavior, these premium high alumina bricks are tailor-made for extreme application conditions.

JURAL TE400X – the brick with pure mullite matrix for high temperatures and extreme thermal shock

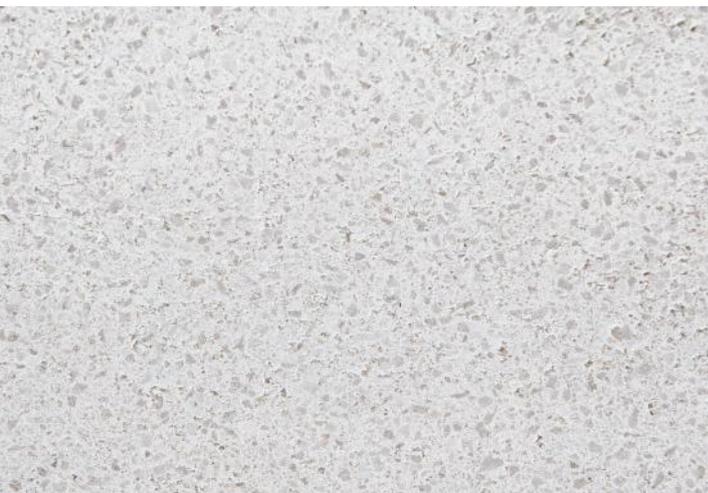
Manufactured with fused mullite and fused corundum, the **TE400X** gets a fine and uniform mullite matrix without any free silica. This structure is dedicated to processes beyond 1.600 °C such as Claus furnaces, sulfur combustion plants or thermal oxidizers. With more than 50 cycles in the thermal shock resistance test, the **TE400X** will not only easily resist to the operating conditions, but also to the frequent cycling process of start-up and shut-down.

JURAL TE500K – the pure alumina brick

With 99,5% Al_2O_3 the **TE500K** does not tolerate any impurity. It is dedicated for reducing atmosphere application in combination with high temperature radiation in syngas production units like gasifiers or autothermal reformers, hydrogen torch, carbon black or high temperature furnaces.

JURAL TE500Z – the pure alumina brick, with improved thermo shock resistance

The **TE500Z** is a further evolution of the **TE500K**, with special zirconia phases in the microstructure. It provides higher thermal flexibility to the brick in order to support the extreme conditions and gradients, especially at burner, nozzles and areas with thermal cycling load.



JURAL TE400X



The shapes can be customized to fit with complex/extraordinary designs

Product Highlights

	JURAL TE400X	JURAL TE500K	JURAL TE500Z
Composition:			
Al ₂ O ₃	92,00 %	99,50 %	98,00 %
SiO ₂	7,00 %	0,15 %	0,20 %
Fe ₂ O ₃	0,20 %	0,10 %	-
ZrO ₂	-	-	1,50 %
Raw Material:	Fused Mullite Fused Corundum	Fused Corundum	Fused Corundum
Refractoriness under load [ISO 1893]:	>1.700 °C	>1.700 °C	>1.700 °C
Cold Crushing Strength [MPa]: [DIN EN ISO 1927-6]	100	100	100
Thermal Shock Resistance [DIN 51068]	>50 x	>20 x	>35 x

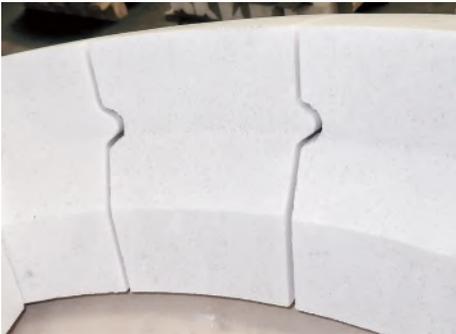
Beyond the material supply, J+G is your reliable partner for performance



Outstanding performance of the refractory lining is only reached with an outstanding performance in every step:

>> **expertise, design, material supply and installation**

With its special knowledge and strong experience for more than 80 years, J+G proposes and guarantees you not only the best quality in materials but extraordinary behaviour of the overall lining.



Contact

Jünger+Gräter GmbH
Robert-Bosch-Straße 1
D-68723 Schwetzingen

Phone: +49 (0) 6202 944 0

Fax: +49 (0) 6202 944 194

info@jg-refractories.com

See our website:

>> www.jg-refractories.com