

DURRATH COR 30

raw material base: cordierite fireclay

chemical analysis [%]:

Al ₂ O ₃	38
SiO ₂	-
MgO	< 7

bulk density [g/cm³]: 2,0

open porosity [Vol.-%]: ≤ 25

cold crushing strength [MPa]: ≥ 25

refractoriness under load, DIN 51053 t_{0,5} [°C]: -

suitable mortar/adhesive: COR 30 / 1-1400

resistance to thermal shock

thermal shock number to DIN 51058, part 1: > 30

dimensional tolerances:

≥ 150 mm	± 1 %
≤ 150 mm	± 1,5 mm

bow of bricks up to 1 % of the highest tolerances

The given quality values were determined at test bodies which were won of normal bricks. They represent average values which may not be transferred to other formats unconditionally.

draw up:	date:	released:	controlled:	revision:	product group: UIFOVK20/14	filename:
KL	10/92	10/92	03/03	02	Bricks	Durrath COR 30

Additional information to explain the product (typical data):

DURRATH COR 30

refractoriness under load with
rising temperature t_a [°C]: -

permanent linear change [%]: -
test temperature °C, test time h

thermal conductivity by the hot wire method [W/mK] at: 600 °C -
800 °C -
1000 °C -
1200 °C -
1400 °C -

thermal shock resistance DIN 51068,
part 1, number of quenching [n]: ≥ 30

linear thermal expansion coefficient between °C and °C [$10^{-7}K^{-1}$]: -

mean specific heat [kJ/kg K] between 20 °C and 400 °C: 0,96
20 °C and 1200 °C: 1,06

characteristic feature: -high thermal shock resistance

preferred ranges of application:

draw up:	date:	released:	controlled:	revision:	product group: UIFOVK20/14	filename:
KL	02/95	02/95	03/03	02	Bricks	Durrath COR 30