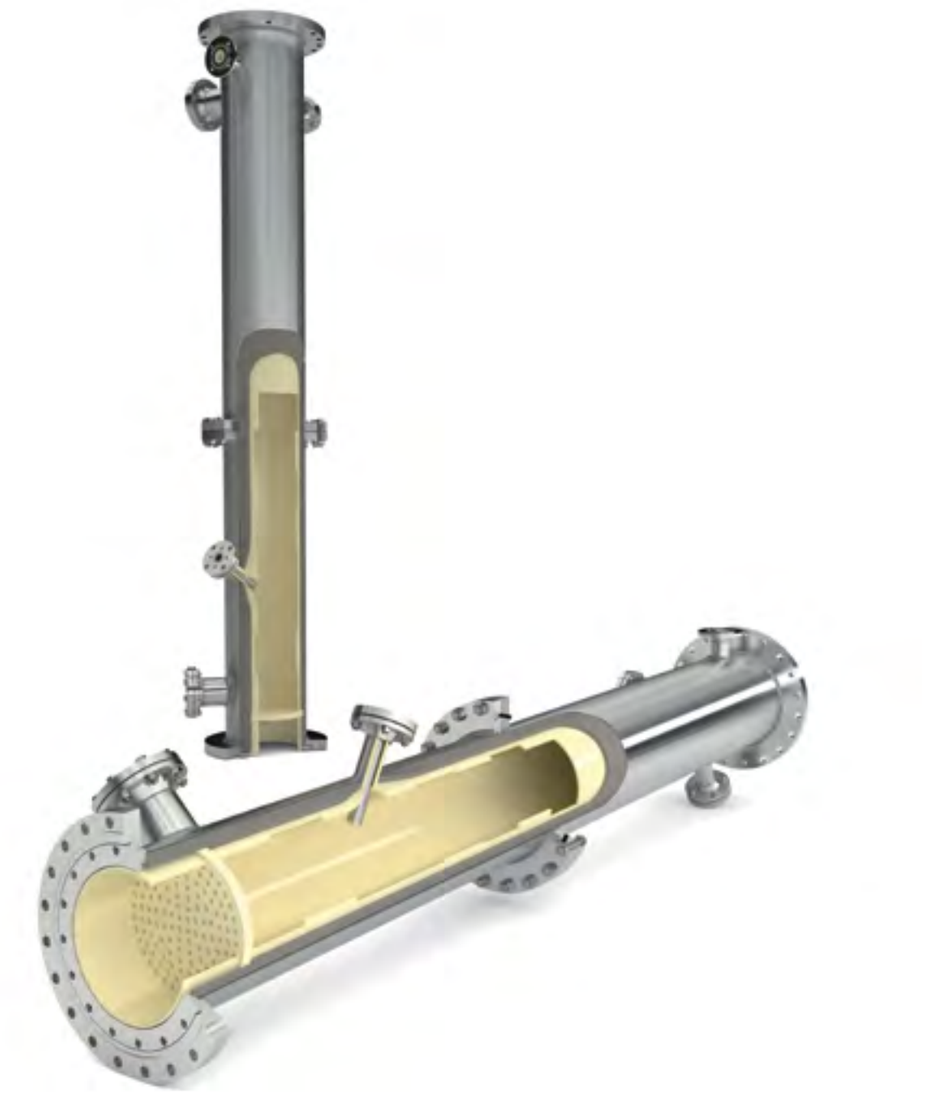
NH_3 COLUMN SECTION

MATERIALS / MATERIAL OPTIONS:



Standard	
Steel jacket with flanges	P235GH (St 35.8I) / primed
Ceramic liner	Aluminium oxide
Putty	Cement

Options	
Steel jacket with flanges	1.4301 or 1.4571
	St 37 / HALAR coated
Ceramic liner	Silicon carbide, silicon nitride
Putty	Silicon, PUR (polyurethane)

CERA ENGINEERING

FUNCTION:

Columns are apparatus or pressure vessels in which chemical, physical or biochemical processes take place.
Alongside chemical burdens, local exothermic reactions may also result in high temperatures or flows of solid material that can negatively affect fittings or reactor walls through wear.
Through the use of correspondingly appropriate ceramic materials, wear can be reduced and reliability can be ensured, particularly in the case of pressure vessels.

Here, a great variety of designs is available. These apparatus are generally constructed to customer specifications.

NOMINAL DIAMETER RANGE:

Clear width of the ceramics: max. 600 mm
Flange connections: DN 15 to DN 600 (1/2" to 24")

PRESSURE RANGE:

PN 16 to PN 160
ANSI class 150 to class 1500

CERAMIC LINING MATERIAL:

Aluminium oxide
Silicon carbide
Silicon nitride

HOUSING MATERIAL:

Metallic as per customer specifications

TEMPERATURE RANGE:

as per customer specifications

OPTIONS:

with internal heating or cooling
with electric heat tracing

TYPICAL APPLICATION AREAS:

Chemical industry:
- Sorbite production

Fertiliser industry:
- Production of mixed fertiliser
- Production of ammonium nitrate

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