BEKAERT

better together

Aconit®: Cylindrical or flat premix gas burner

Application

Bekaert was the inventor of the reliable and proven Aconit® technology. This high performance, metallic surface burner is based on a unique design which allows Aconit® burners to be used in residential, commercial and industrial applications at loads from 1 kW (3.8 kBtu/h) to 1 MW (3.8 MBtu/h) and beyond. The Aconit® burners are equipped with the Bekaert Bekinit® material. This is a knitted metal fibre, produced within the Bekaert Group and which has exceptional performance in flame stability and heat insulation.

Discover our burner concept: Aconit®

The burner surface material of the Aconit® burner comprises optimized rectangular knitted FeCrAlloy metal fibres which provide superior insulation leading to less risk of flash back. Due to its 3D structure, the material also provides high reliability due to the high heat transfer which lowers the surface temperature. Life expectancy is further increased by the materials elastic properties which allow for thermal expansion.

Bekaert Bekinit® also allows complex burner shapes to be developed, including 3D, due to its elastic properties. This high flexibility offers customers extreme options with regard to specific requests for special or unusual burner designs. There are therefore Aconit® solutions available for all heat exchanger layouts. Customers are able to develop Aconit® burners quickly and efficiently and get them to market in the shortest possible time with the aid of our Technical Centre. Aconit® burners have a consistently high quality because Bekaert controls the complete manufacturing process from generating the basic fibres to the final burner.

Bekaert provides not only gas burners and heat exchangers but complete heat cells including the key components. Would you like to find out how you can benefit exclusively from Bekaert's leading experience in combustion technology? Locate your local Bekaert specialist on the right side of this page or send an e-mail to bct@bekaert.com to discuss the possibilities.

Benefits

- Because of the high flexibility of the burner surface material, the burner can adopt any shape to meet your specific requirements
- Aconit® solutions are possible for all heat exchanger lay-outs
- High reliability because the knitted material forms a 3D structure which provides superior heat transfer and therefore a lower surface temperature
- Bekaert can co-develop environmentally clean and durable burners that fuel your business

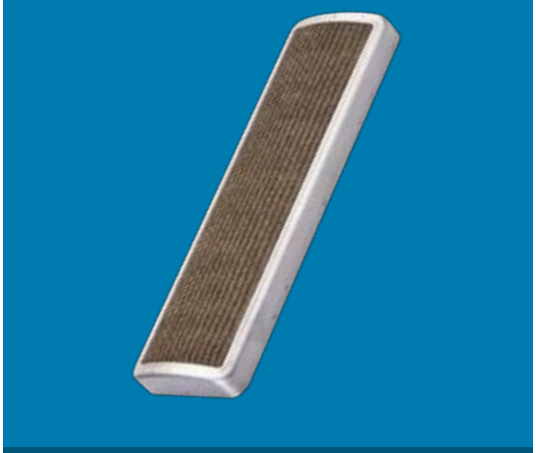
Specifications

- Compact and solid construction, 100% refractory stainless steel
- High modulation range of 1 up to 22 kW/dm² (higher loading is possible on specific applications)
- Power level up to 2,5 MW (bigger sizes available on request)
- Low NOx emissions (< 50 mg/kWh) and of CO (< 50 mg/kWh)
- Suited for all heat exchanger lay-outs
- The Bekaert Bekinit® material gives flexibility, excellent insulation and the best possible cooling to fibers close to the flame
- Compatible with all gases of the first, second and third family

Size options		
Diameter (mm)	Maximum length (mm)	Maximum heat load (kW)
35	210	50
50	300	100
63	380	165
70	420	203
82	500	280
98	600	400
140	840	800
200	1200	1600
245	1500	2500
Heat load and maximum length are indicative and dependent upon appliance and application		

BEKAERT

GREEN



Aconit® is a product of:

Europe
Bekaert Combustion Technology B.V.
J.C. van Markenstraat 19
9403 AR Assen
The Netherlands
T +31 592 345 145
F +31 592 345 483
bct@bekaert.com

USA
Bekaert Combustion Technology
1395 S. Marietta Parkway
Building 700, Suite 708
Marietta GA 30067
USA
T +1 770 514 2273
F +1 770 423 9181
bct-us@bekaert.com

Asia
Bekaert Korea Ltd.
3rd Floor Changwoo Building,
#553 Dogok-Dong, Kangnam-Ku,
Seoul, 135-270
South Korea
T +82 2 539 8762
F +82 2 539 8780
jan.chun@bekaert.co.kr

Bekaert Management (Shanghai) Co., Ltd
17F, Block E, Waterfront Palace, No. 31
Lane 168, Daduhe Road
Shanghai 200062, P.R.
China
T +86 2122 1971 03
F +86 2122 1971 00
xing.fan@bekaert.com

Bekaert Japan Co., Ltd.
3F, 2-27-10, Hatchobori, Chuo-ku
Tokyo 104-0032
Japan
T +81 3 5542 7624
F +81 3 5542 7771
takeshi.masu@bekaert.com