

# FEATURES & APPLICATIONS

When process conditions combine both corrosion and temperature, material selection becomes a key criteria of random packing. For more than 120 years, Mersen has developed advanced materials such as graphite to provide raschig rings capable of handling your severe processes.

**Graphilor®**, Mersen's isostatic graphite, is the superior mechanical and corrosion resistant graphite in the Chemical markets.

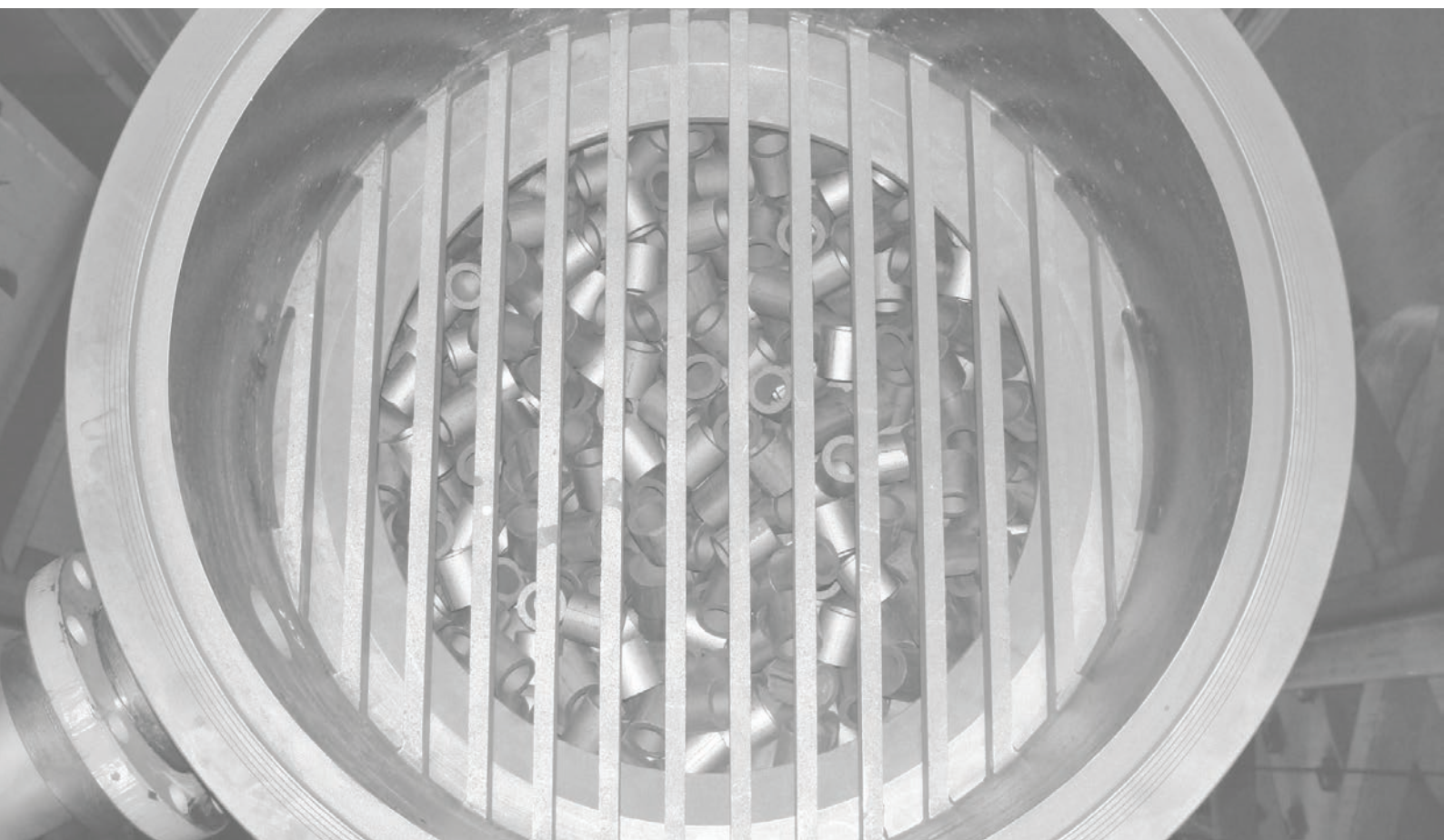
## MERSEN GRAPHITE RASCHIG RINGS SPECIAL FEATURES

- they withstand high temperatures (max 200°),
- they resist thermal shocks
- they are perfectly resistant to almost all corrosive agents used in industry (particularly those attacking silico-aluminum materials; hydrofluoric acid, boiling hydrochloric acid, etc.)
- they can be moistened by any liquid and guarantee maximum efficiency for the operation planned.

## PRODUCT APPLICATIONS

- HCl separation for production and for HCl recovery
- MCA distillation
- Concentration of hydrofluoric acid
- Separation of chlorophenols

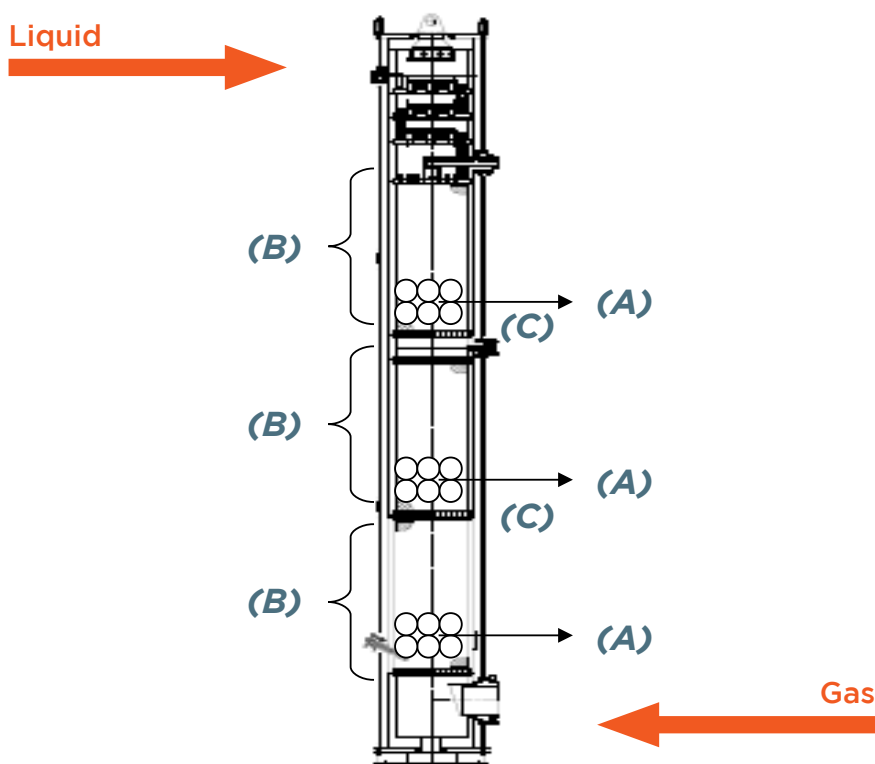
Mersen designs and manufactures process equipment notably columns and their internals (demisters, spargers, distributors, support grids, thermowell, distribution tubes) made of tantalum, graphite, PTFE lined. References are available upon request.



# TECHNICAL CHARACTERISTICS

Raschig rings increase the surface area for contact between a liquid and a gas in order to optimize the absorption of the gas in the liquid within the distillation column.

Raschig rings are fragments of tubes made of unimpregnated graphite or amorphous carbon **(A)**. They are placed in large quantities in the column in one or more vessels **(B)** and are supported by graphite grids **(C)**, which enable the liquid to flow towards the next vessel.



Raschig rings are packed in 200l barrels and are marketed in various diameters (mm).

Nominal Size (")	Dimensions OD/ IDxL (mm)	Bulk Density (kg/m <sup>3</sup> )	Bulk number (pc/m <sup>3</sup> )	Specific surface (m <sup>2</sup> /m <sup>3</sup> )	Void volume (%)	Packing Factor F (m <sup>-1</sup> )
¾ "	18/11x18	700	130 800	259	62	1 070
1 "	25/16x25	660	48 800	187	65	700
1 " ¼	32/22x32	590	23 200	146	68	460
1 " ½	37/25x37	600	15 000	126	67	410
	51/38x51	500	5 750	92	73	230
	86/60x86	570	1 200	54	69	160

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