



the corrosion expert

FluoroCore Column Internals

**NEW
MATERIAL**

Liquid distributors

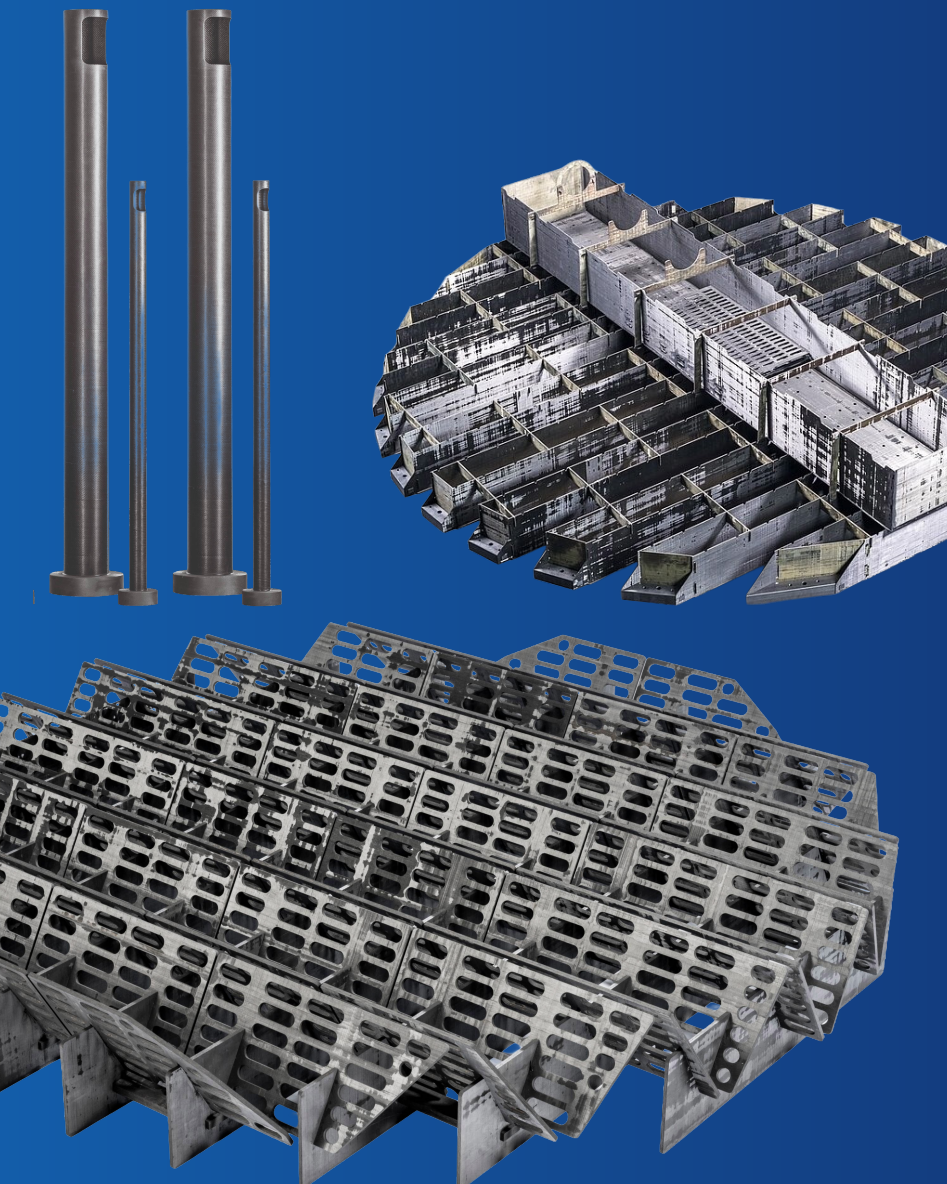
Support grids

Feed tubes

Hold down grids

CRP offers a comprehensive range of corrosion resistant, extremely strong & light weight column internals.

These internals are made from a new generation of materials, called Carbon Fibre Reinforced Carbon. It offers the same reliable quality and high performance as our fluoropolymer materials.



www.crp.co.uk
www.ptfebellows.com

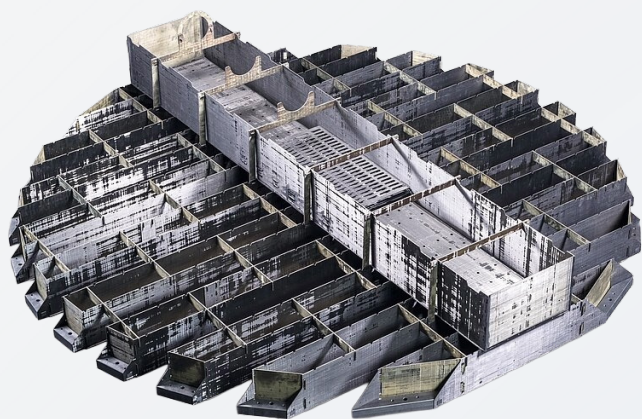
FluoroCore Column Internals

Corrosion Resistance - High Strength - Lightweight

Column internals help improve packed column performance by offering better liquid distribution, stronger packing and improved process flow.

Manufactured from carbon fibre reinforced materials, they offer high strength, low weight, high stiffness, extremely wide corrosion resistance and elevated temperature capability, making them suitable for new installations, system upgrades and as an alternative to traditional corrosion-resistant materials.

Liquid distributors



Liquid distributors spread liquid evenly across the packed bed area, improving packing wetting, vapour-liquid contact and mass transfer efficiency for stable column operation.

With custom designs available to suit the application.

Benefits:

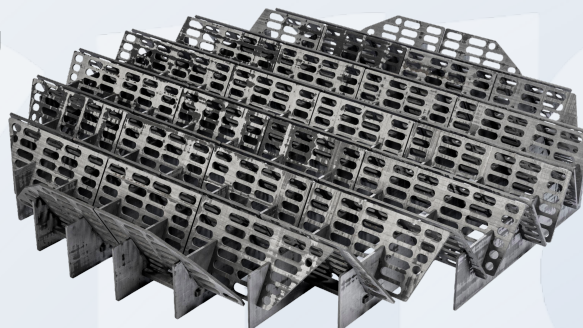
- Even liquid coverage across the packed bed area.
- Improved vapour-liquid contact and mass transfer.
- Lightweight, strong and application-specific design.
- Easy installation.

Support grids

Support grids are installed inside packed columns to support structured or random packing while allowing vapour and liquid to pass freely through the column.

Benefits:

- Supports structured or random packing
- High open area for reduced flow restriction, >90%
- Minimised pressure drop for efficient operation.
- Lightweight, corrosion-resistant support
- Strong, and can support several tonnes
- Suitable for high-temperature applications
- Easy installation, even through manway nozzles.



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Dip Legs /Feed tubes



Dip Legs and feed tubes introduce liquids or process media into the column at the required point, helping direct flow accurately into the correct area of the vessel. For agitated vessels, a stress calculation can be carried out as part of the specification process to confirm the most suitable design.

Made from carbon fibre reinforced materials, they offer a strong, lightweight and temperature-resistant alternative to PTFE dip pipes where permeation or mechanical strength might be a concern.

Benefits:

- Accurate media introduction into the column.
- Reduced permeation risk compared with PTFE options.
- Lightweight construction for easier handling, installation and maintenance.

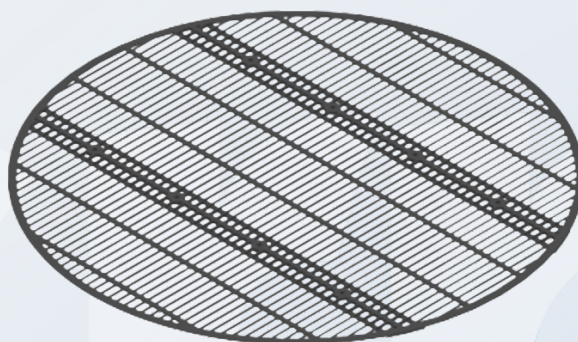
Hold down grids

Hold down grids are positioned above the packing to prevent movement, or lifting during operation while helping control liquid splash-up.

Made from carbon fibre reinforced materials, they provide a lightweight, rigid and corrosion-resistant solution for securing the packing bed, with only marginal restriction on vapour or liquid flow.

Benefits:

- Keeps packing securely in position.
- Helps minimise disruption to vapour and liquid flow.
- High free-flow area supports low pressure drop and efficient column operation.



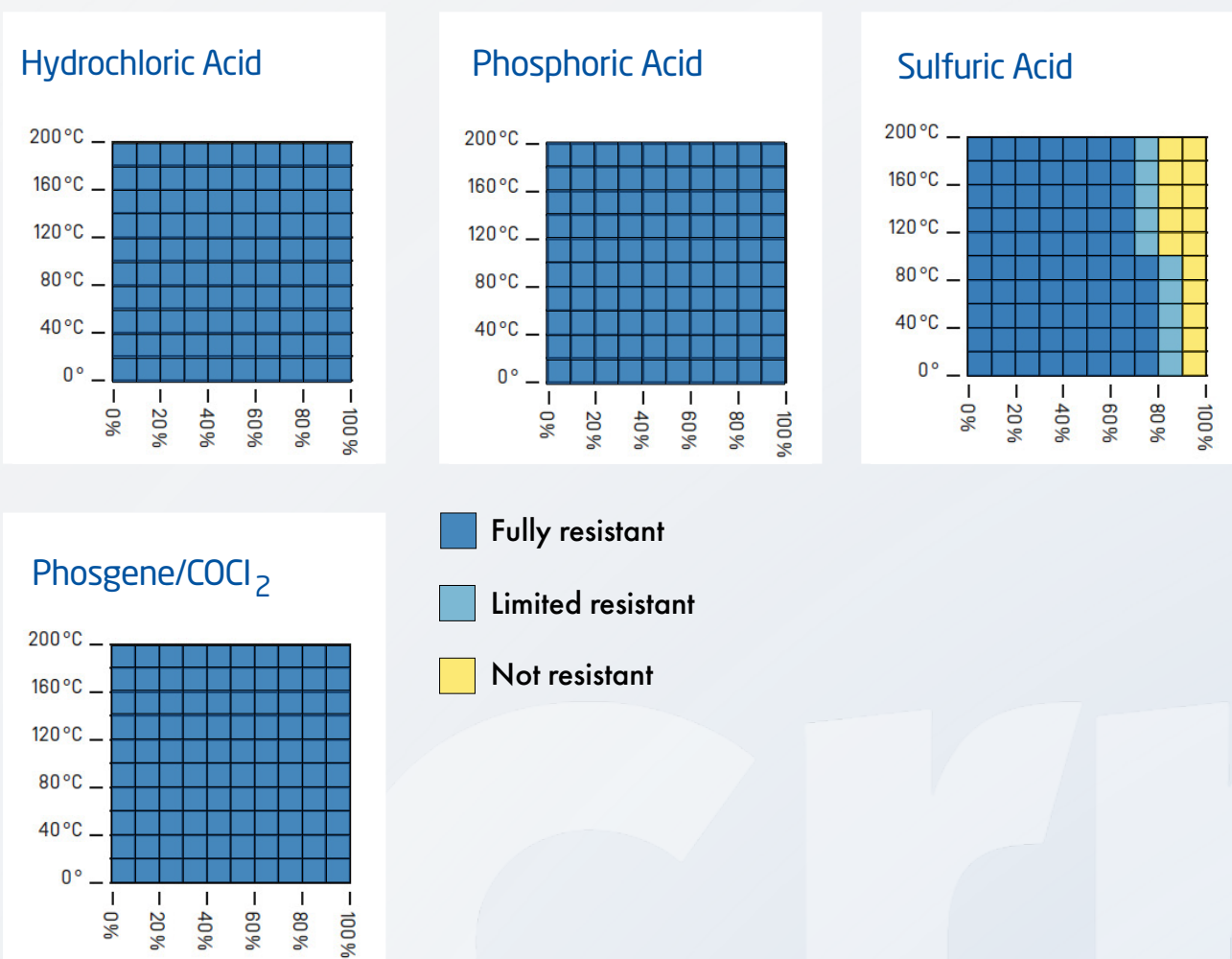
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Chemical Compatibility

Compatible with an extensive range of chemicals and operating environments, this range can be applied across numerous industrial processes and applications.

Examples for typical applications:



With many more compatible materials, please contact us for more info.



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