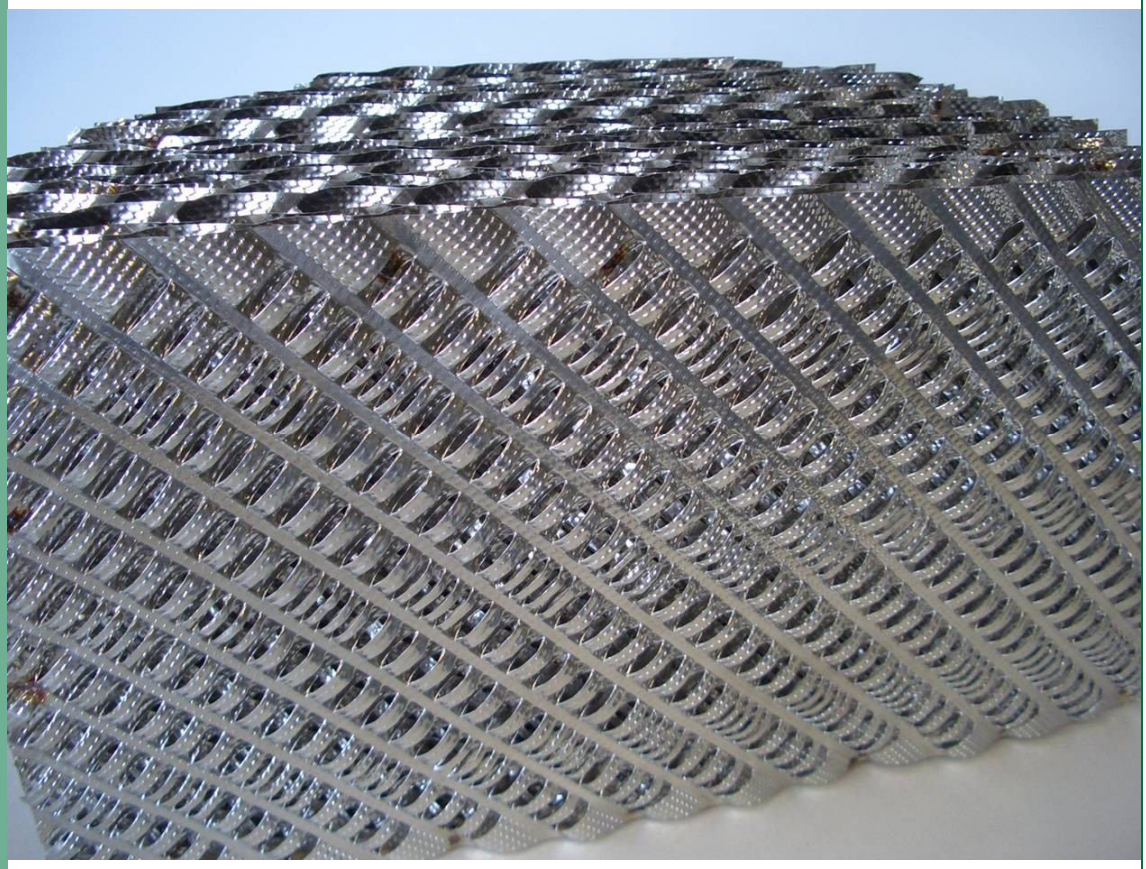
Raschig Super-Pak

Product Bulletin 501

A new packing structure with innovative advantages



Superior performance by design™

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Raschig Super-Pak

The new Raschig Super-Pak is a novel development in mass transfer technology because of its optimized surface design. It enables, to an extent never known before, great separation efficiency and high loading capacity while keeping the pressure drop extremely small.

Raschig Super-Pak structured packing is fundamentally different to the standard and high capacity corrugated sheet metal structured packings existing since years on the market. A common feature of these standard and high capacity structured packings is that both have discreet crimped channels that force vapourliquid traffic along preferred flow paths. Additionally the vapour-liquid traffic is forced into sharp directional changes at the packing layer interface when packing elements are vertically stacked. The net result is that the enforced vapour-liquid flow patterns within the 'closed' structure of a common packing element do not necessarily utilize all of the available surface area for mass transfer and impose restrictive forces that reduce capacity and increase pressure drop.

Raschig adopted a different approach in developing Raschig Super-Pak. It is a more open structure such that vapour-liquid traffic can flow freely within a packing element and no sharp directional changes are existing at the layer interface.

The rows of sinusoidal waves within vertical packing sheets are surface enhanced to encourage greater turbulent radial spread of thin liquid film flows on the front and back of the waves on each sheet within an element.

The open structure resulted in excellent hydraulic and mass transfer efficiency characteristics.

The following figures are describing the advantages.

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Structured Packings
Process Data

Raschig Super-Pak

Size	Style	Surface m^2/m^3	Free Vol. %
100	Y	100	98
150	Y	150	98
200	Y	200	98
250	Y	250	98
300	Y	300	98
350	Y	350	97
400	Y	400	97
500	Y	500	96
750	Y	750	96

Raschig-Pak

Size	Style			Surface m^2/m^3	Free Vol. %
125	X	Y	-	125	98
200	X	Y	-	200	98
250	X	Y	HC	250	98
300	X	Y	-	300	98
350	X	Y	HC	350	97
500 Gauge	X	-	-	500	95

HC = High capacity

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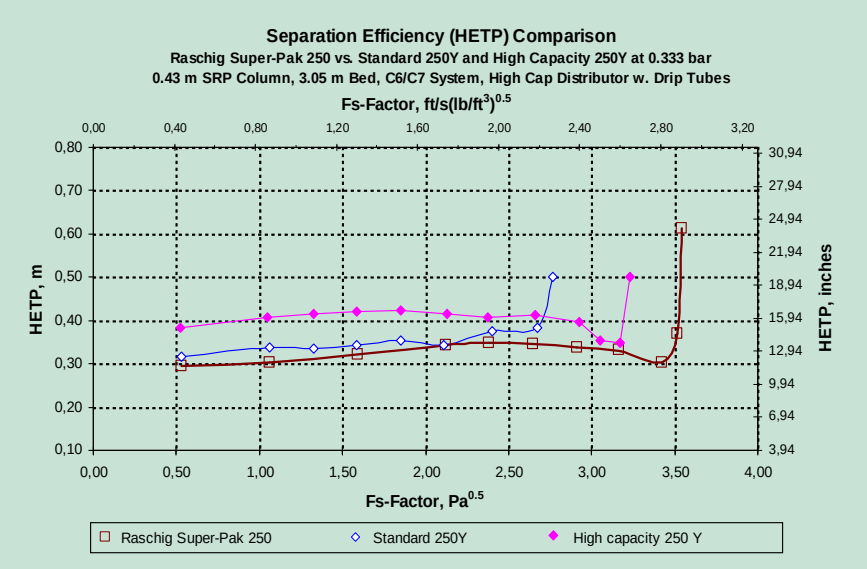
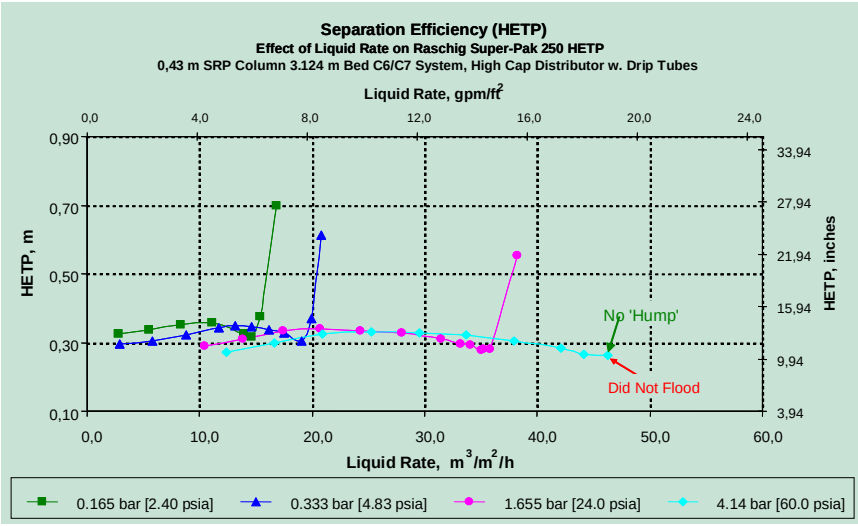
Raschig Super-Pak 250





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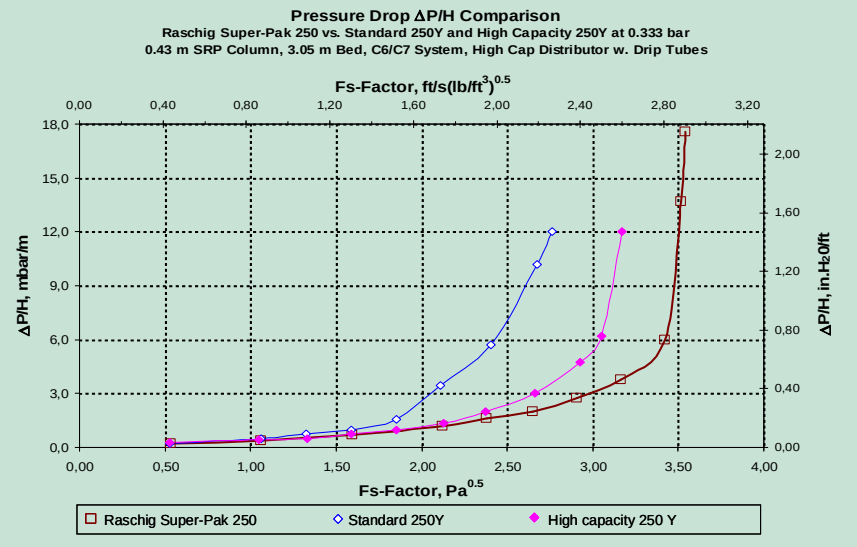
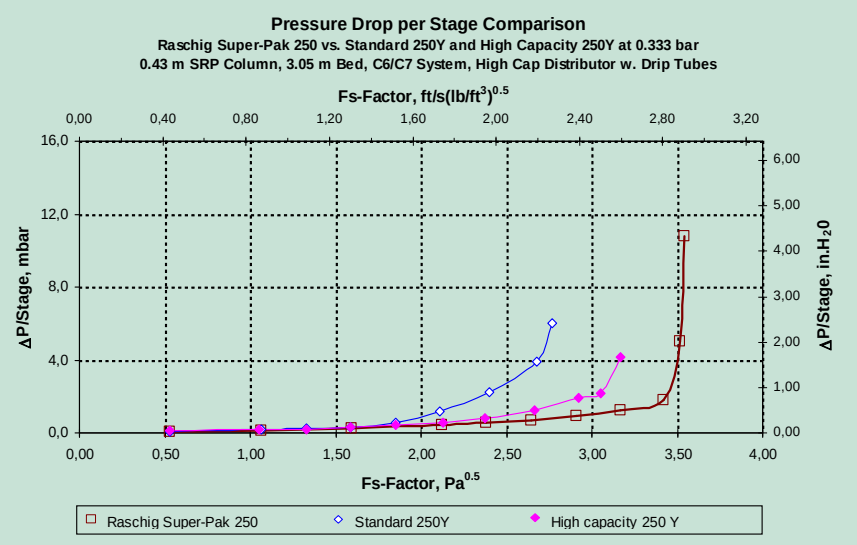
Raschig Super-Pak 250





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