

MACH Tower Packing

MACH Mini-Rings

Overview:

- Cascade Mini-Rings® (CMR®) was developed and commercialized in 1971
- They have cylindrical surface and linear internal braces.
- They have an aspect ratio (height to diameter) of 1:3.
- The low aspect ratio orients the particle with their open side facing the vapor flow.
- Since its introduction, it has been utilized in a wide variety of distillation, absorption and stripping columns around the world.
- Its unique geometry maximizes turbulent mixing between phases



Materials: PP, PE, PVC, CPVC, PVDF (Kynar®), PFA (Teflon®)

Nominal Size (in)	1 (25 mm)	2 (50 mm)	3½ (90 mm)
Void Fraction (%)	90	93	93
Geometric Surface Area (ft²/ft³)	70	35	27
Weight – PP (lb/ft³)	4.1	3.1	3.0
Packing Factor (1/ft)	24	12	9

Benefits

- The low aspect ratio reduces the friction, uniform the liquid flow and exposes more surface for mass transfer.
- Its shape allows higher bed heights with little deformation and low-pressure drop across the bed.
- Low packing factor allows increased hydraulic capacity