MACH ENGINEERING

Plastic Saddles | Tower Packing

A cost-effective, highly versatile packing design

Plastic Super Saddles feature a curved, saddle-like shape with a series of small openings in the arc and corrugations on the outer ridge. These openings are meant to promote the free passage of fluid thus minimizing pressure drop as well as prevent nesting. The scallops on the Super Saddles inhibit the tendancy for the saddles to nestle on top of one another and help the packing retain its high performance. MACH Engineering's plastic Super Saddles are an excellent alternative to both INTALOX® plastic Super Saddles and our own Plastic Rings.

Nominal Size (in)	1 (25mm)	2 (50mm)	3 (76mm)
Void Fraction (%)	90	93	94
Geometric Surface Area (ft^2/ft^3)	73	33	27
Weight-PP (lb/ft^3)	5.85	3.75	3
Packing Factor (1/ft)	33	21	16

Standard Features:

- Void ratio as high as 95%
- Efficient mass transfer
- Uniform contact between gas and liquid
- Low pressure drop
- Higher liquid hold up than Raschig ring
- Excellent versatility
- Cost effective and affordable

Materials Available:

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

Applications:

- Desulfurization and decarbonization
- Various drying, scrubbing, and stripping towers
- Absorption, extraction, and heat transfer
- Sulphuric acid production
- Liquid separation processes

For Rental or Purchase Inquiries:

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