

Metal Structure Packing-Mellapak Plus Type
Introduction

Mellapak plus is an enhanced capacity structured packing that retains all the benefits of traditional Mellapak while introducing improved geometry. At the top and bottom of each packing element, the corrugation gradually aligns with the vertical axis. This design enables smoother vapor flow transitions, reduces gas velocity by about 25% at the interfaces, and lowers pressure drop and shear forces. As a result, it eliminates the risk of premature flooding and improves overall hydraulic performance.

ESP Mellapak Plus Specification

Size	Surface Area	Void Fraction
(Nominal)	(m ² /m ³)	(%)
252.Y	250	98
452.Y	350	98
752.Y	500	98

Features

- 25-30% higher capacity compared to mellapak
- Lower pressure drop
- Smooth vapor flow at element joints
- 25% lower gas velocity
- Low risk of premature flooding
- Suitable for low vacuum to high pressure

Applications

- Basic chemicals and petrochemicals
- Ethylbenzene/styrene
- Fatty acids
- Tall oil
- Caprolactam
- Refinery operations
- Absorption/desorption columns
- Natural gas drying

