

Metal Structure Packing-Wire Gauze Type

Introduction

Invention of gauze packings in the early sixties was a breakthrough in distillation technology, enabling difficult separations and the processing of thermally sensitive substances. Wire gauze packing is the industry leader for deep vacuum and low liquid rate applications, like in chemicals, pharmaceuticals, and temperature sensitive materials. It offers very high efficiency and low pressure drop, making it ideal for medium to small diameter columns where maximizing theoretical stages with minimal column height is required. The wire gauze's capillary effect provides excellent mass transfer efficiency, particularly at very low liquid rates.

- Low liquid hold-up
- Not suitable for fouling substance
- Not suitable for non-wetting liquids

Applications

- Distillation and mass transfer towers
- Pharmaceutical products
- Separation of isomers
- Fatty acids and fatty alcohols
- Mono, di, tri, and tetraethylene glycols plants
- Fine chemicals
- Pilot and laboratory columns
- Batch and Continuous Columns

Features

- High number of theoretical stages per unit height
- Low pressure drop per theoretical stage (0.1-0.5 mbar)
- Minimum liquid load

ESP Wire Gauze Specification

Size	Surface Area	Void Fraction
(Nominal)	(m ² /m ³)	(%)
500.Y	500	95

