

Wedge wire screens & internals

Trislot® wedge wire from Belgium, supplied in Malaysia by Epal Samudera

PETRONAS-licensed vendor (Bumiputera Local) · JKKP-licensed fabrication PVM01 / PVR01 · ISO 9001:2015

What it is

V-shaped profile wires resistance-welded to support rods give a continuous, non-clogging slot with an accurate filter rating, high open area and mechanical strength. Supplied as slot tubes (cylinders) or flat welded screens, made to your drawing. Epal Samudera handles sizing, site measurement, reverse engineering of existing internals, installation support and turnaround expediting.

Products for oil & gas, petrochemical, LNG and fertilizer plants

Product family	Typical items
Column & vessel internals	Header-lateral distributors and collectors, lateral arms, support grids, bed limiters and hold-down grids
Reactor & adsorber internals	Outlet collectors and baskets, scallops, centre pipes, catalyst and adsorbent support screens, resin traps
Filter elements	Slot tubes, filter candles, elements for backwash and self-cleaning filters
Strainer elements	Wedge wire baskets and cylinders for basket, Y, tee and temporary (conical) strainers
Water treatment	Laterals and nozzles for demineraliser and media filters, intake screens, rotary drum screens, sieve bends

Specification range

- Slot openings from 0.03 mm; surface profiles 4S to 50S; support profiles Q22 to 50 × 3 mm; welded screens up to about 3.0 × 3.5 m
- Materials: AISI 304/304L, 316L, 316Ti, 321, 317LN, 904L, duplex 1.4462, super duplex 1.4507, 254 SMO, Monel 400, Hastelloy C276, titanium Gr 2
- Finish: degreased and pickled as standard; passivation, electropolishing and hardening on request
- Quality: manufacturer ISO 9001; EN 10204 3.1 material certificates; drawings submitted for approval

Wedge wire track record

Year	Sector	Scope
2024	Refining & chemicals, Malaysia	Coalescer support grid for a 3.6 m reactor Wedge wire support grid Ø3,550 mm, 0.25 mm slot, SS304, built in sections to pass through the reactor manway.
2023	Refining & chemicals, Malaysia	Wedge wire tee screens Repair of one and supply of three 10-inch SS316L tee screen elements, 0.25 mm slot.
2020	Oleochemical, Malaysia	Segmented wedge wire support grids Two SS316L support grids Ø1,174 mm, 0.15 mm slot, in three segments to pass a DN500 manhole, bolted together inside.
2020	Refining & chemicals, Malaysia	Wedge wire tee screens 10-inch SS316L wedge wire tee screen elements for an integrated refinery and petrochemical complex.
2020	Offshore gas, Malaysia	Catalyst support grids for absorber vessels Support grids for two gas absorber vessels ID 4,000 mm and two condensate absorbers ID 2,100 mm for an offshore central processing platform.

Client names, purchase orders and plant locations are withheld. Named references on request.