



Ambani
METALS

RELIABLE FOUNDATION, REMARKABLE FUTURES!

STRUCTURED PACKING SOLUTIONS

Structured Packing

For over two decades, Ambani Metals has remained at the forefront of the industry, leading the way in the meticulous craftsmanship of high-performance Structured Packing. Engineered with precision, our Structured Packing is purpose-built to streamline substance transfer within thermal fractionation processes. This dedication to excellence has cemented our reputation for delivering products renowned for their superior functionality and unwavering reliability.

Our extensive expertise, cultivated over years of experience, has enabled us to continuously refine our Structured Packing, ensuring it meets the ever-evolving demands of modern industry.

By utilizing carefully selected thin metal sheets or mesh, we achieve a meticulously designed pattern that maximizes surface area and open spaces. This innovative configuration is the cornerstone of our packing's ability to facilitate optimal mixing of gases and liquids, guaranteeing seamless substance transfer.

At Ambani Metals, we understand that no two fractionation processes are alike. That's why we go beyond off-the-shelf solutions, offering customizable options tailored to meet your specific requirements and challenges. Whether you need bespoke designs, special materials, or unique configurations, our team is dedicated to providing solutions that align perfectly with your needs.

With an unwavering commitment to innovation and quality, Ambani Metals continues to push the boundaries of what's achievable in thermal fractionation processes. Our relentless pursuit of excellence ensures that you can trust in our decades of experience and unparalleled expertise to optimize your operations, reduce downtime, and maximize efficiency.

Elevate your fractionation processes to new heights with Ambani Metals' Structured Packing – the trusted choice for industry leaders worldwide. Contact us today to discover how we can tailor our solutions to empower your success.

Environmental Responsibility: Sustainability is ingrained in our manufacturing ethos. We prioritize the use of environmentally sustainable materials and production processes, ensuring that our Structured Packing not only delivers exceptional performance but also minimizes ecological footprint.

AMBSTRUC Series Structured Packing [AMBSTRUC]

The AMBSTRUC structured packing is a useful and affordable product used in various industries today. It has good qualities like being able to predict how much substance it can handle, not causing too much pressure, working efficiently, and being flexible. This makes it important for separating different substances. The following sizes are available in X and Y type: AMBSTRUC 125 X, AMBSTRUC 125 Y, AMBSTRUC 210 X, AMBSTRUC 210 Y, AMBSTRUC 250 X, AMBSTRUC 250 Y, AMBSTRUC 350 X, AMBSTRUC 350 Y, AMBSTRUC 500 X, AMBSTRUC 500 Y, AMBSTRUC 750 X, AMBSTRUC 750 Y.



Material of Construction

Stainless Steel, Nickel Based Alloys, Hastelloy, Titanium, Tantalum, Monel

Application

Standard application, moderate vacuum to high pressure, low to high liquid loading

Available Size

F-factor : 1.2 to 3.5
Surface Area : 125 to 750 m²/ m³
NTSM: 1 to 4.4

High Capacity Vantage Structured Packing [AMBSTRUC Plus]

Ambani's AMBSTRUC Plus Series structured packing is a special kind of material with a unique texture that helps liquids spread out really well. It controls how gases move and makes sure liquids don't get stuck in one place. This type of structured packing is often used in columns to make them hold more substance, reduce pressure, and can replace other materials like sheet metal, random packings, and trays.



Packing Types	AMB-HC 2.SL / AMB-HC 3.SL / AMB-HC 4 .SL / AMB-HC 6.2L / AMBHC 7.SL / AMB-HC 10.0L
Surface Area (m ² /m ³)	250 / 300 / 350 / 420 / 500 / 750
Application	Very low pressure drop and heat sensitive systems, high liquid & vapour loading
Material of Construction	Stainless Steel, Nickel Based Alloys, Hastelloy, Titanium, Tantalum, Monel
Key Characteristics	Available in both sheet metal and wire mesh, eliminates abrupt change in flow direction, eliminates premature build up of liquid, provides up to 50% higher capacity at the same NTSM compared to conventional structured packing, significantly lower pressure drop compared to conventional packing

Lab Structured Packing [AMB-LAB]

Ambani Metals also has special lab packing series AMB-LAB packing for research and development trials and pilot unit distillation. This packing is really good at its job with very little pressure drop (0.1 to 0.4 mbar per stage). It works well with small amounts of liquid (0.05 m3 per square meter per hour), and it has a large surface area and NTSM.



Series	AMBPAK - Lab 10, AMBPAK - Lab 20
Material of Construction	Stainless steel or any Metal/Alloy according to customer request
Application	Can be used for High vacuum to 2 mbar
Key Characteristics	NTSM : 20 - 40 Diameter : 25 - 100 mm

Wire Mesh Structured Packing [AMBMESSH]

Wire mesh packing has been used in industries for over 10 years and has proven effective for challenging separation tasks. It's typically used in smaller to medium-sized columns where a lot of theoretical stages are needed in a small column space.



Packing Types	AMB-WM 5.0M / AMB-WM 7.5L
Surface Area (m ² /m ³)	500 / 750
Application	High vacuum to low pressure drop requirement. Fatty alcohols, Processing of specialty chemicals, Monomers from plastics, Pharmaceuticals, Fine Chemicals, Isomer mixture separation.
Key Characteristics	Excellent wetting characteristics, Large number of theoretical stages, Low overall height, Capillary effect of special wire mesh, High fractionation efficiency and capacity, Large number of theoretical stages F-factor : 1.5 to 2.2 Surface Area : 500 to 750 m ² /m ³ NTSM : 6 to 8.5

Contact Us

At Ambani Metals, we genuinely anticipate the chance to collaborate with you and fulfill your requirements with our extensive expertise and unwavering dedication to excellence. Our team is committed to going above and beyond to understand your unique needs and deliver solutions that not only meet but exceed your expectations.

Rest assured that when you choose Ambani Metals, you're choosing a partner who is fully invested in your success and will work tirelessly to support your goals. We eagerly await the opportunity to demonstrate the value we can bring to your projects and contribute to your continued growth and prosperity.



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