



PTFE Coated Wire Mesh

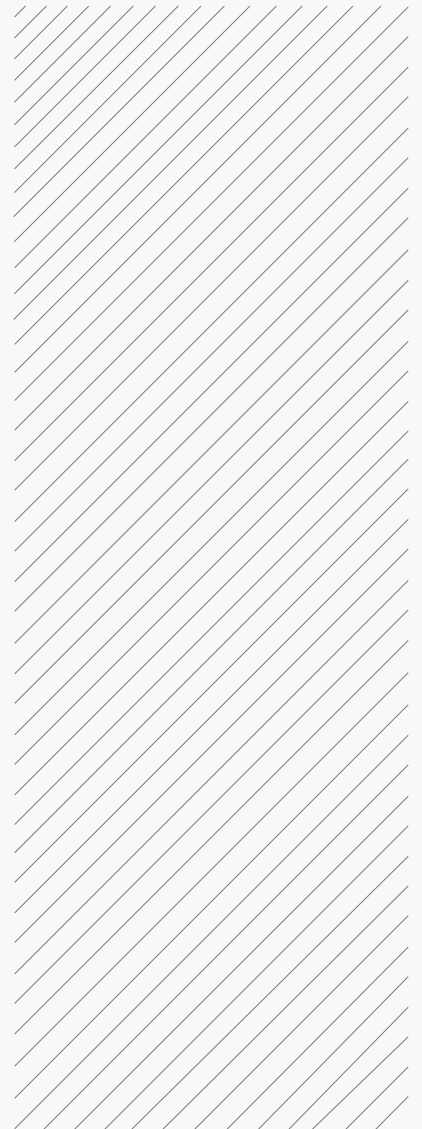
Weave Impossible to Possible



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The PTFE sprayed on the PTFE coated wire mesh is hydrophobic, and can achieve great oil-water separation effect.

PTFE coated wire mesh is woven wire mesh that is coated with PTFE resin. Since PTFE is a hydrophobic, non-wetting, high density and high temperature resistant material, wire mesh coated with PTFE can then effectively prevent the passage of water molecules, thus separating water from various fuels and oils. So, it is commonly used to filter liquids and gases, and is generally used in the surface of separation filter elements.

PTFE Coated Wire Mesh



PTFE COATED WIRE MESH

Specification

Wire mesh material: stainless steel 304, 316, 316L.

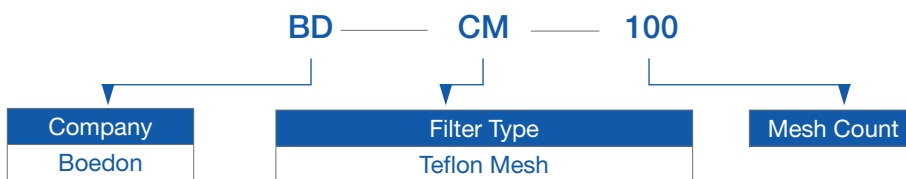
Coating: PTFE resin

Mesh count: 100, 120, 150, 180, 200

Color: green

Standard: ASTM E2016-11, UNS S31600

Single layer coating thickness: 0.02 mm



PTFE Coated Wire Mesh

Model	Mesh	Wire Dia. (mm)	Original Aperture (mm)	Aperture After Coated (mm)	Original Mesh Thickness (mm)	Thickness After Coated (mm)	Open Area	Weight After Coated (kg/m) ²	Standard Size
BD-CM-100	100 × 100	0.11	0.144	0.11–0.12	0.22	0.26	25%–27%	0.68	1.2 × 1.2m; 1 × 1m
BD-CM-120	120 × 120	0.09	0.122	0.09–0.1	0.18	0.22	25%–27%	0.56	1.2 × 1.2m; 1 × 1m
BD-CM-150	150 × 150	0.06	0.11	0.08–0.09	0.12	0.16	32%–36%	0.33	1.2 × 1.2m; 1 × 1m
BD-CM-180	180 × 180	0.05	0.091	0.06–0.07	0.10	0.14	31%–34%	0.29	1.2 × 1.2m; 1 × 1m
BD-CM-200	200 × 200	0.045	0.082	0.05–0.06	0.09	0.13	28%–32%	0.26	1.2 × 1.2m; 1 × 1m

Features & Application

Features

- **Good oil-water separation effect.** PTFE coating material has good hydrophobicity and great lipophilicity, and can quickly separate water from oil;
- **Excellent heat resistance.** PTFE can work at a temperature ranging from -70 °C to 260 °C for a long period, and has great thermal stability;
- **Long lifespan.** Excellent resistant to acids, alkalis and chemicals, and can protect the wire mesh from chemical corrosion;
- **Non-stick property.** The solubility parameter SP of PTFE is very small, so its adhesion to other substances is also very small;
- **Great coating process.** Stainless steel wire mesh surface is coated with PTEF, uniform coating, and voids will not be clogged.

Application



Chemical

It is often used to separate water and oil from oil-water mixture in industrial production.



Metallurgy

Rolling mill, continuous casting machine hydraulic system and various lubricating equipment liquid filtration.



Oil

Gasoline, diesel, kerosene filtration.



Aviation

Jet fuel impurities removal and filtration



Papermaking

Hydraulic oil filtration



Power Plant

Steam turbine oil and liquid filtration



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