

XPE®-MP2 Substrate Support Mat

XPE®-MP2 is the fifth generation expanding support mat from Unifrax. Guided by the successful history of support mat manufacturing and expertise in ceramic fibers, Unifrax engineered this product to deliver economic value and top performance to meet the broad needs of off-road, heavy-duty diesel and underbody gasoline applications.

XPE-MP2 combines features found in expanding and nonexpanding mounting mat. At low exhaust temperatures, it functions much like an all fiber nonexpanding mat, where the ceramic fiber generates the holding force needed for substrate retention. Above 350°C, the vermiculite in the mat begins to expand providing additional holding force.

XPE-MP2 is especially suited for diesel and gasoline underbody applications. The mat's superior shear strength provides a clear advantage in passing shaker tests designed to test the stress-strain of the support mat at low exhaust temperatures.

With the evolution of lighter weight and more fragile substrate materials, some mounting mat materials present a greater risk of substrate damage due to high peak pressures in the canning process. XPE-MP2 was designed to have low peak cold compression throughout its useful gap bulk density range reducing the risk for substrate breakage.

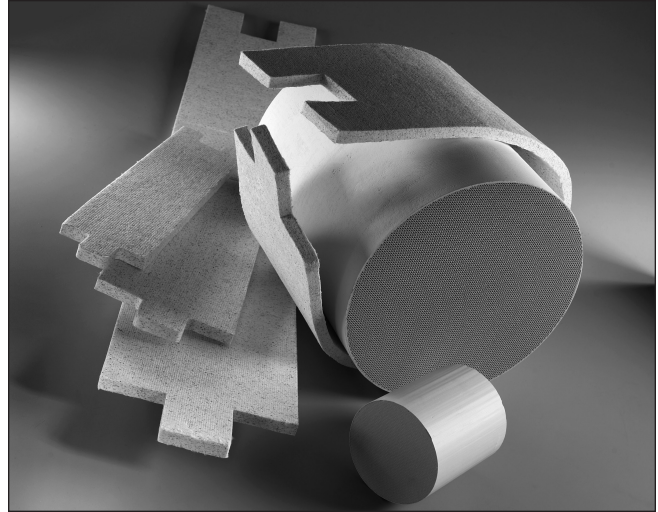
A support mat's resistance to erosion is critical to a lifetime of failure free aftertreatment operation. Although there are various methods to prevent mat erosion, they can often lead to added production costs. XPE-MP2 comes with excellent resistance to erosion eliminating the need for mat edge pre-treatment or the addition of costly wire mesh seals.

Applications:

- Diesel light-duty and heavy-duty
 - DOC, SCR, DPF
 - Large and small substrate diameters
 - Cordierite, SiC, AT
- Gasoline underbody applications

Worldwide Technical Support

Unifrax is a worldwide sales and service organization with several international locations and representatives. The services that we provide include thermal modeling, system design engineering assistance, and failure analysis as well as technical exchange programs. For additional information regarding XPE-MP2 or any of our catalytic support mats, please contact your local Unifrax Sales Engineer or visit: www.unifrax.com



Physical Properties

Basis Weight	Nominal Thickness	Target Gap
(g/m ²)	(mm)	(mm)
2600	10.4	4.0
2900	11.6	4.5
3900	15.6	6.0
4200	16.8	6.5

Typical Composition

Fibers Weight % Range	56 – 69
Vermiculite Weight % Range	27 – 37
Organic Binder Weight % Range	3 - 5

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