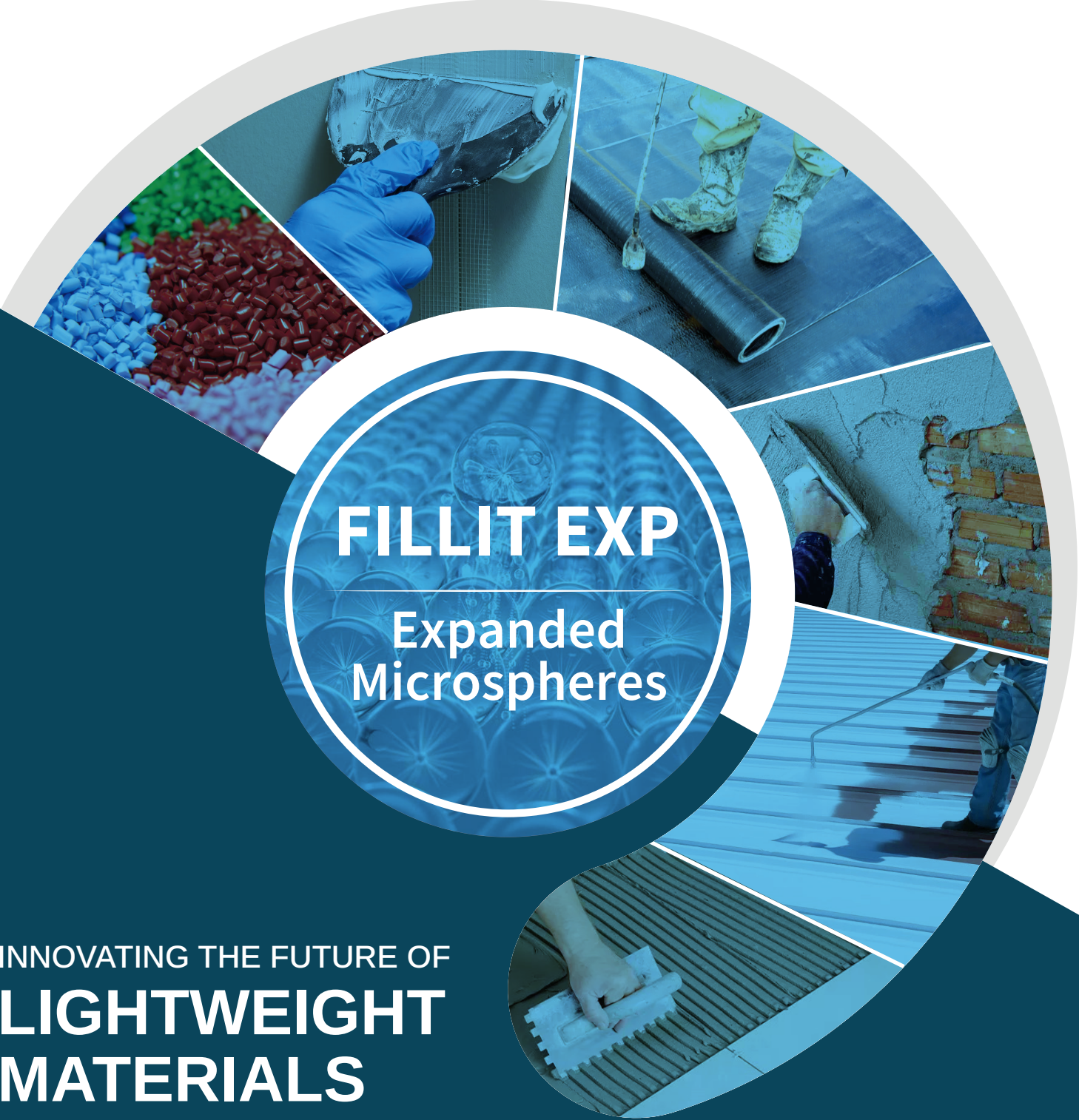


A large circular collage with a grey border, divided into five segments showing various construction applications of expanded microspheres. The segments include: 1) A close-up of a gloved hand applying a grey paste over a mesh. 2) A worker's legs in yellow boots standing on a dark, curved surface. 3) A worker using a trowel to apply a grey material to a brick wall. 4) A worker using a long-handled tool to apply a material to a corrugated metal roof. 5) A hand using a white, rectangular tool to press a material into a corrugated metal surface.

FILLIT EXP

Expanded
Microspheres

INNOVATING THE FUTURE OF
**LIGHTWEIGHT
MATERIALS**

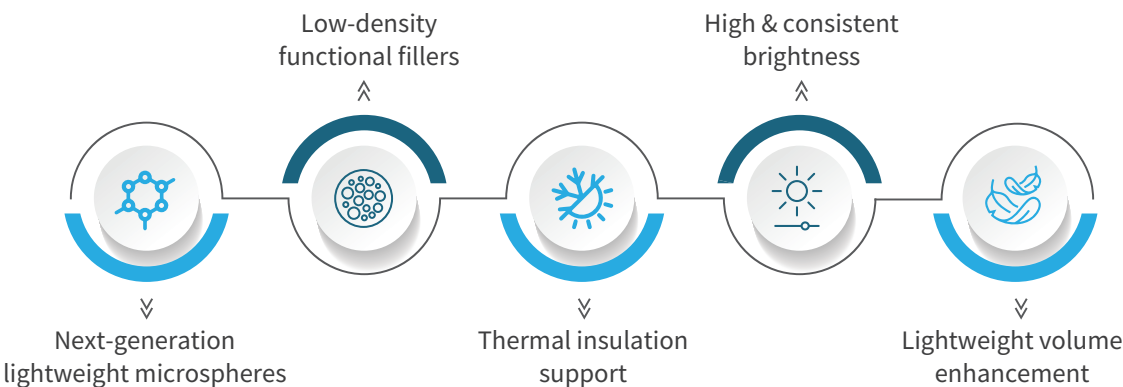
www.petrachem.in

Lightweight Microsphere Technology For High-Yield Formulations

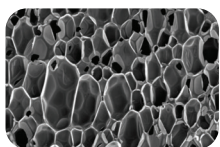
Petra Expanded Microspheres (EXP Series) are lightweight inorganic mineral fillers engineered to provide **low density, thermal insulation, and improved formulation efficiency** across industrial applications.

Their closed-cell structure helps reduce overall system weight while maintaining dimensional stability, workability, and processing consistency. Designed as an alternative to conventional heavy fillers, the EXP Series supports lightweight system development without compromising functional performance.

At A Glance

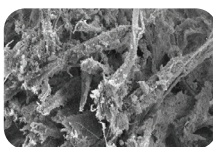


Key Properties



Closed-Cell Structure

Minimizes resin & water absorption with stable viscosity & insulation.



Ultra-Low Density

Supports effective weight reduction across cementitious & dry-mix systems.



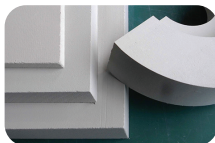
Superior Whiteness

Helps maintain bright & clean finished products.



Chemical Stability

Compatible across varied industrial formulations.



Thermal Resistance

Suitable for elevated temperature applications.

Grades and Benefits

Technical Specifications		
Grade	Bulk Density	Particle Size d95%
PETRA FILLIT EXP-150	0.36 - 0.42	0 - 150
PETRA FILLIT EXP-250	0.22 - 0.26	0 - 250
PETRA FILLIT EXP-300	0.23 - 0.28	0 - 300
PETRA FILLIT EXP-500	0.20 - 0.26	0 - 500
PETRA FILLIT EXP-600	0.12 - 0.16	0 - 600
PETRA FILLIT EXP-850	0.11 - 0.15	0 - 850

Advantages of Petra Expanded Microspheres

Improves formulation yield
and volume efficiency

Supports thermal and
acoustic insulation

Enhances application
workability & sandability

Reduces formulation
weight

Helps optimize
cost-per-liter performance

Supports lightweight
system development

Benefits by Application

Construction Materials

Lightweight microspheres designed to improve workability, insulation & formulation efficiency across modern construction systems.

Benefits

- ✓ Reduces dead load in buildings
- ✓ Improves thermal insulation
- ✓ Enhances workability & smooth finishing
- ✓ Reduces shrinkage & cracking
- ✓ Improves formulation yield



Wall Putty



Gypsum Plaster



Spackle



Dry-Mix Mortar



Tile Adhesives



Insulation panels



Lightweight concrete

Suggested Grades:- Petra FILLIT EXP-150, EXP-250, EXP-300

Coatings & Surface Systems

Engineered filler technology supporting
lightweight coating formulations
with improved texture and surface consistency.

Benefits

- ✓ Improves spreadability & smooth finish
- ✓ Reduces coating weight
- ✓ Enhances heat resistance
- ✓ Reduces cracking & shrinkage
- ✓ Improves suspension stability



Exterior wall coatings



Roof insulation coatings

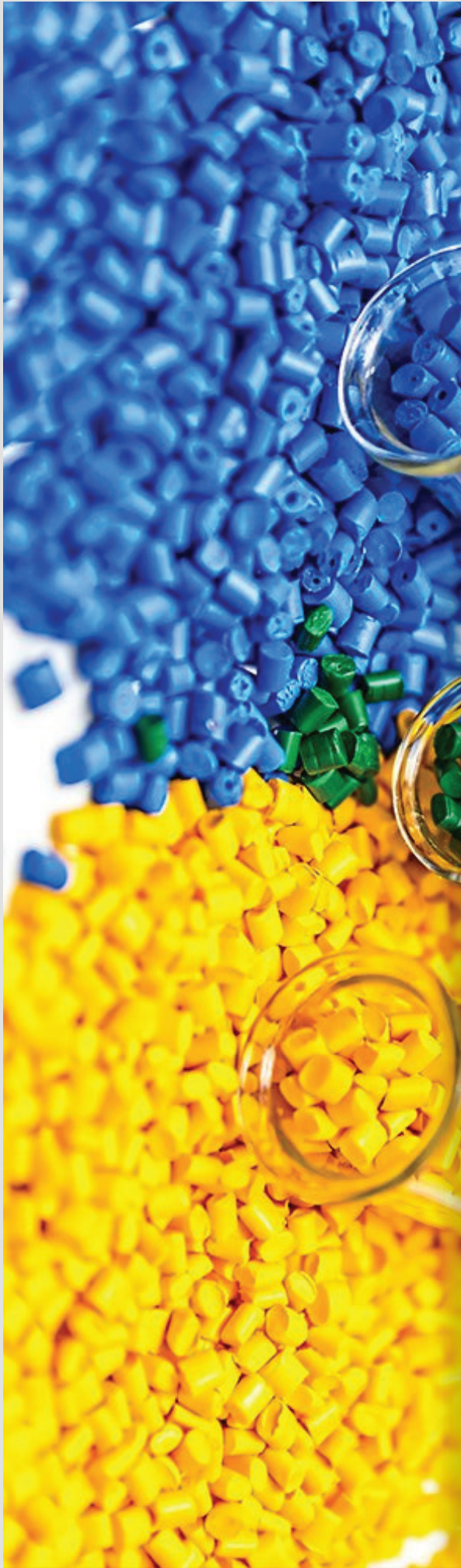


Industrial coatings



Waterproof coatings

Suggested Grades:- Petra FILLIT EXP-150, EXP-250



Polymer & Composite Applications

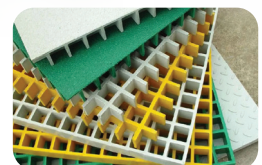
Microsphere solutions developed to improve material efficiency and lightweight performance across polymer systems.

Benefits

- ✓ Reduces product weight
- ✓ Improves dimensional stability
- ✓ Enhances thermal insulation
- ✓ Improves flow & processing



PVC compounds



FRP products



Injection molded parts



Decorative panels

Suggested Grades:- Petra FILLIT EXP-250, EXP-300, EXP-600

Lightweighting Redefined

Your ultimate source for next-gen Functional Fillers.
Advanced microsphere technology engineered to slash formulation weight, boost efficiency, upgrade insulation & maximize material performance.



The Old Way

Traditional Fillers

The Heavy Burden Conventional, dense mineral fillers that inflate formulation weight & drive up system density.



The Petra Solution

Petra Lightweight Sphere Range

Hollow Micro-Cellular Power Ultra-lightweight, engineered hollow spheres designed to deliver maximum high-yield formulations.



The Advantage

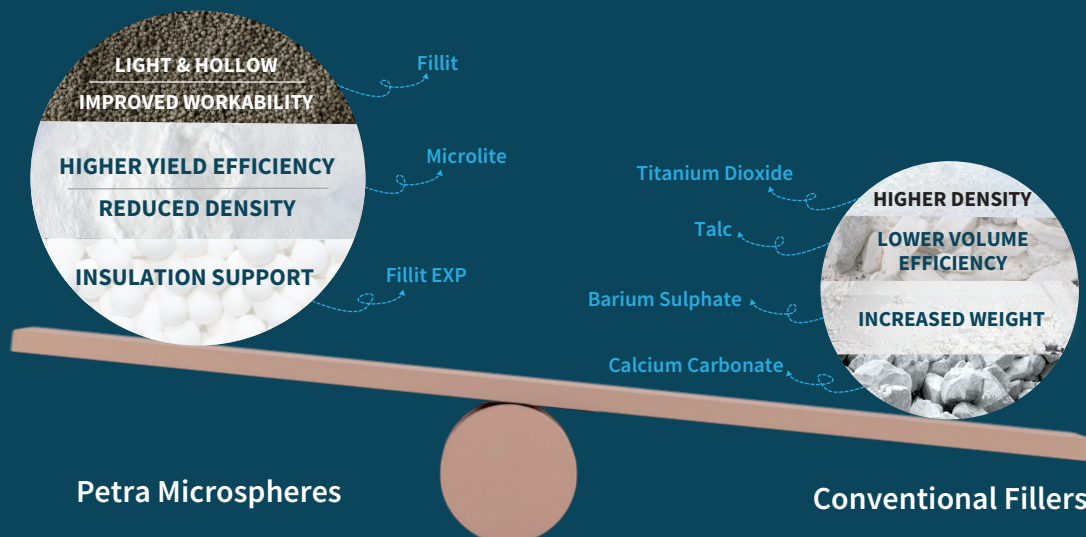
The Lightweight Edge

Superior Performance Drastically lower system weight combined with vastly improved product efficiency and cost-savings.



PETRA LIGHTWEIGHT SPHERE RANGE

One stop solution for all Lightweight Functional Fillers.





FILLER TECHNOLOGY THAT REDEFINES LIGHTWEIGHT STRENGTH



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ROOWA, BHAVNAGAR, GUJARAT, 364001.

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