

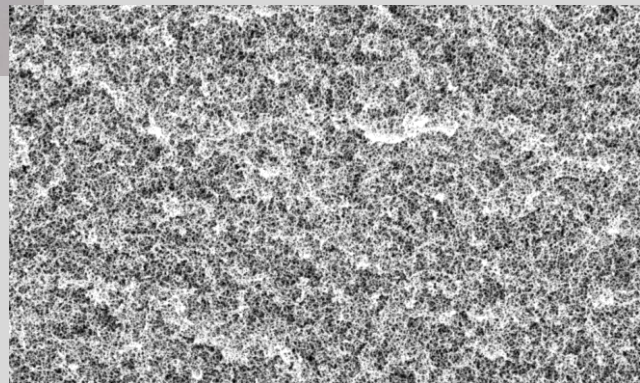
# SUMFOAM<sup>®</sup> Oil Binder



- Super-Absorption powered by Nanostructures -



- ➔ World's first polymer foam with pores in the nanometer range with unique properties
- ➔ Safe for health and environment proofed by *Institute for Toxicology and Environmental Hygiene*



- ➔ Produced by an innovative foaming technology with climate-friendly CO<sub>2</sub>
- ➔ SUMTEQ-Technology enables an entirely new class of oil absorption materials

- 1 Powerful** > 1 kg SUMFOAM absorbs more than 10 l oil (according to LTWS-Nr. 27)
- 2 Rapid** > Immediate absorption due to enormous surface of more than 50 m<sup>2</sup>/g
- 3 Robust** > Permanent binding of oil even under very high stress / load
- 4 Eco-friendly** > Emission-free, pure material without soluble residues
- 5 Versatile** > Suitable for all oils and hydrophobic liquids
- 6 Selective** > No water absorption at all, floats on surface even in saturated state
- 7 Efficient** > Residue-free thermal utilization, full preservation of calorific value

## Technical specifications & Illustration

Appearance	White flakes	Absorption capacity	> 10 l oil per kg
Material	Thermoplastic polymer	Average pore size	< 100 nm
Tapped density	50 - 70 kg/m <sup>3</sup>	Temperature range	-270 °C to 90 °C
BET Surface Area	> 50 m <sup>2</sup> /g	Surface property	Highly hydrophobic
Particle size range	0,5 - 3 mm	Pore structure	Open-cellular



Water and Oil



addition of SUMFOAM

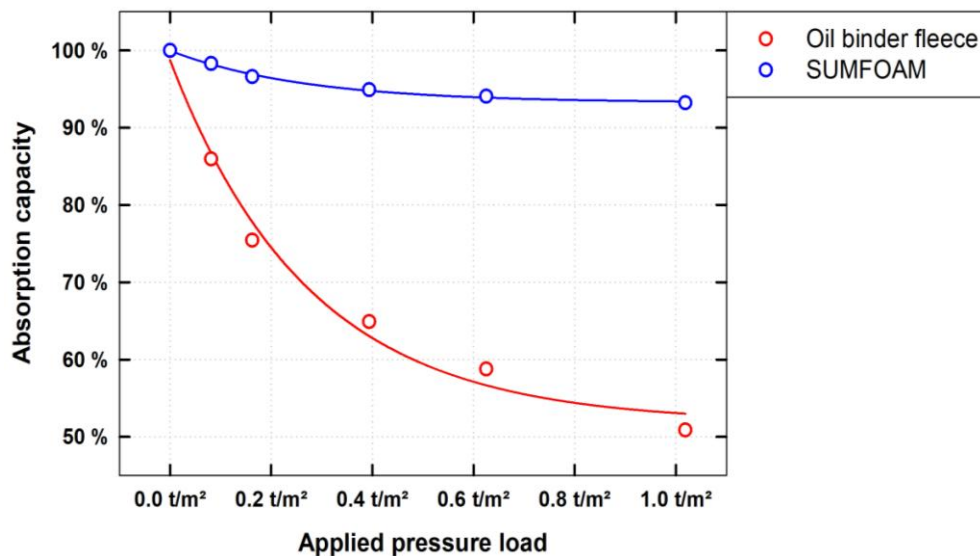


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remove SUMFOAM + Oil

## Load Test Results



➔ Even under highest loads of more than one ton per square meter, the absorption capacity of SUMFOAM remains almost completely unchanged.

