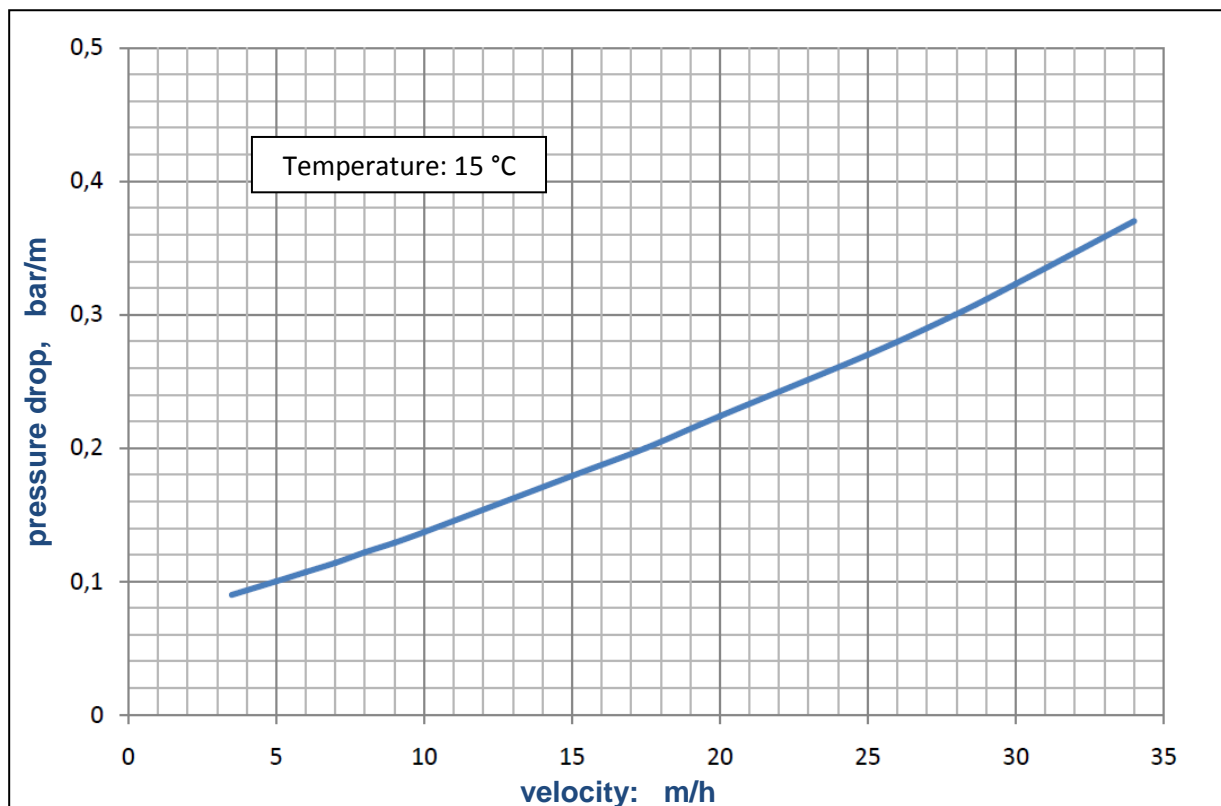


Material Properties

Chemical formula and composition	Amorphous Fe(OH) ₃
Mineralogical composition	Up to 40% of Ferric Ions from its dry weight
Physical properties	
Bulk weight	640 kg/m ³
Specific surface	270 m ² /g
Porosity	minimum 70%
Humidity	~ 10%
Fe(OH) ₃ content	minimum 75%
Color	dark brown
Mesh size	0.5 - 2.0 mm
Operational condition and exchange capacity	
Bed depth UP Flow	70 - 75 %
Free board UP Flow	10 - 20 %
Bed depth Down Flow	450 - 1500 mm
Free board Down Flow	50 - 75 %
Service flow rate	10 - 20 m/h
Back wash flow rate	25 - 30 m/h
Total adsorption capacity as P ⁵⁺	15 g/kg
Total adsorption capacity as As ⁵⁺	12 g/kg
Oxidation capacity as H ₂ S	up to 20% of its dry weight
pH	5 to 9

Backwash Pressure Drop



Volume Expansion during Back Wash

