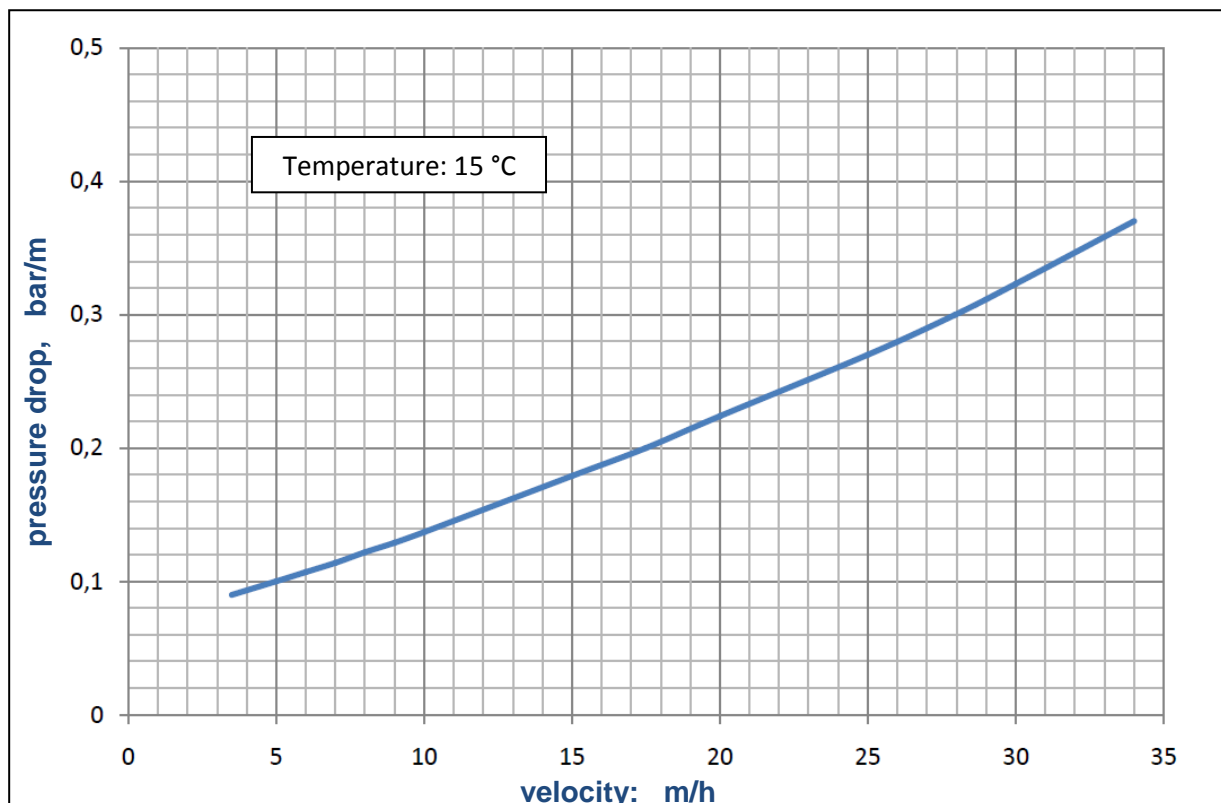




**Material Properties**

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

**Backwash Pressure Drop**





**Volume Expansion during Back Wash**

