

Zeolite Technical Data Sheet

Material Name	Natural Zeolite		
Chemical Name	Hydrated aluminosilicate of alkaline metals		
Mineral form	Clinoptilolite		
Formula	Ca _{1.8} K _{1.8} Na _{0.2} Mg _{0.2} Al ₆ Si ₃₀ O ₇₂ .24 H ₂ O (Na _{0.21} K _{1.74})(Ca _{1.71} Mg _{0.31})(H ₂ O) _{18.28} [Al _{6.11} Si _{29.90} O ₇₂]		
CHEMICAL COMPOSITION			
SiO ₂	66.30-71.30%	MgO	0.6-1.50%
Al ₂ O ₃	11.90-14.00%	Na ₂ O	0.20-1.30%
CaO	2.70-5.20%	TiO ₂	0.10-0.30%
K ₂ O	2.20-3.80%	Si/Al	4.0-6.0%
Fe ₂ O ₃	0.80-1.90%		
MINERAL COMPOSITION			
Clinoptilolite	85%	Rutile	0.10-0.35%
Clay	5%	Plagioclase	3-4%
Cristobalite	9%		
ION EXCHANGEABLITY PROPERTIES			
Exchange	Ca ²⁺	0.65-1.0 mol/kg	
	K ⁺	0.25-0.55 mol/kg	
	Mg ²	0.07-0.20 mol/kg	
	Na ⁺	0.01-0.19 mol/kg	
Cation exchange capacity		1.23-1.55 mol/kg	
H ₂ O vapour sorbed by dehydrated rock Moisture of 98%		13.88-15.00 H ₂ O mmol/kg	

1. Industry waster water treatment.
2. Living wastewater purify water quality.
3. Removal of ammonia nitrogen of drinking water.
4. Succulent plants Pavement.
5. Aquaculture and Agriculture Industry feed additive.
6. Environmental Protection
7. Removing fluorine and improving the soil
8. Softening of hard water