

TECHNICAL PRODUCT INFORMATION

JURAPERLE

APPLICATION

Juraperle is a fine granular filter medium consisting of calcium carbonate (neutralite)
 It is applied for the pH increase of acid water and also removal of limited amount of iron.
 In contact with the medium, free carbon dioxide is transformed and leads to an increase of the hardness, by dissolving of calcium. It serves at the same time as a filter medium.
 The Juraperle will be consumed and should be refilled after a period of service.
 The size of the filter must allow to keep at least 50% of the medium in 6 or 12 month.
 A system with top and bottom connection will be more useful for the refill.

GENERAL DESCRIPTION

nature	Mineral : > 99 % CaCO ₃
supplied form	per 25 kg
look	white, porous, fine granular
package	sac of 25 kg = +/- 17 L

PHYSICAL AND CHEMICAL PROPERTIES

grain size	available in	1.0-2.0 mm 1.2-1.8 mm standard 1.8-2.5 mm 2.5-4.0 mm
bulk density		1,5 kg/L
product consumption		max 2,5 g Juraperle per f of CO ₂ for example : 15 ppm CO ₂ → 1 kg JP/25 m ³ water
expected hardness increase		2 °F per 10 ppm CO ₂
pH increase		up to about pH 7,5
expansion		max 3%

OPERATING CONDITIONS

min bed dept	1500 mm
service-flow, depending on the CO ₂ content	slow:3 m/h medium:5 m/h high:10 m/h very high:20 m/h max:30 m/h
back wash-flow	min 25 m/h under normal conditions
expansion freeboard	min 25%

REQUIRED WATER QUALITY

max iron concentration (10 m/h)	3 - 4 ppm (with previous aeration)
max manganese concentration	0,05 ppm
oil	absent