

# IRON REMOVAL & NEUTRALISATION

## JURAPERLE - PH CORRECTION

Juraperle is a filter fine granulation medium on the basis of fossil limestone structures. It is applied for increase the pH of poor water, and possibly iron removal. During filtration, the free CO<sub>2</sub> is converted to bicarbonate and calcium is dissolved respectively. By this, the pH and hardness rate is raised. In addition, the iron is also filtered. Because calcium is dissolved, the product must be filled regularly.

Service Flow	12 m/hr
Backwash Rate	24 m/hr
Bed Depth	18 - 30 Inch
Density	1.6 kg / liter
Freeboard	30 %



REFERENCE	ITEM NAME	PACKAGING		
0904015907	Juraperle 1.2 - 1.8 mm	25kg		

## BIRM - IRON/MANGANESE REMOVAL MEDIA

Birm is a relatively inexpensive material which can be used for iron and manganese removal by oxidation. It requires a pH of 7 or more for iron removal and pH 8 for manganese removal (it uses dissolved oxygen in the water to oxidise the metal). As it acts as a catalyst it is not consumed so birm doesn't require regenerating or topping up.

Service Flow	12 m/hr
Backwash Rate	24 m/hr
pH Range	6,8 - 9
Density	1.2 kg / liter
Freeboard	30 %

Alkalinity greater than twice the combined sulphate and chloride  
 Dissolved oxygen: at least 15% of the iron and manganese content  
 less than 0,5% chlorine, no H<sub>2</sub>S, oil or polyphosphates



REFERENCE	ITEM NAME	PACKAGING		
0906015190	Birm	1 cuft		

\* 1 cuft = 28L

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## FILOX-R - IRON/MANGANESE REMOVAL MEDIA

Filox-R can be used for iron and manganese and hydrogen sulphide removal by oxidation. It requires a pH of 7 or more for iron removal and 8 for manganese content. It is heavy, and needs a high backwash flow rate to remove the oxidised iron and manganese but gives a high service flow rate and out lasts Birm.

Service Flow	28 m/hr
Backwash Rate	36 m/hr
pH Range	6,8 - 9,0
Density	2 kg / liter
Freeboard	30 - 50 %

The use of oxidising agents is recommended. Highly reducing waters may cause premature exhaustion ORP over 170mV indicates Filox-R can be used.



REFERENCE	ITEM NAME	PACKAGING		
0906009403	Filox R Iron/Manganese media	1/2 cuft		

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REFERENCE	ITEM NAME	PACKAGING		
0906071354	Greensand Plus	1/2 cuft *		
0906010002	Manganese Dioxide Iron Removal Media	25 kg		

\* 1 cuft = 28L