

A large background image showing a microscopic view of numerous spherical resin beads. The left side of the image shows clear, colorless beads, while the right side shows beads that are a yellowish-brown color, indicating they are saturated with iron. The text is overlaid on the left side of this image.

OVIVO Resins

OvivUP™ - C009

**Cation Exchange Resin
for UPW Plants**

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Overview

OvivUp™ - C009 Cation Exchange resin is specially conditioned and rinsed for producing Semiconductor grade UPW with the highest quality standards. The resin is characterized by a great performance as a component of regenerable mixed bed as well as a regenerable single bed ion exchanger.

This is achieved by using very high grade UP water (following the ITRS guidelines) for the cleaning and rinsing of the UP grade resins during the manufacturing process. A special care is given to critical parameters such as TOC, particles and metals.

OvivUP-C009

PHYSICAL AND CHEMICAL PROPERTIES

Ion Exchange Capacity	eq/l kgr/ft ³	≥ 2.4 ≥52
Ionic Form: H+	eq%	≥99.5
Water Content	%	33 – 43
Bulk density	g/l lb/ft ³	~810 50.6
Physical form		Dark amber beads, translucent
Beads structure		Gel
Matrix		Styrene-DVB
Functional group		Sulfonic acid
Mean particle size **	mm / inch	0.60 - 0.70 / 0.0236 - 0.0276
Total swelling (Na ⁺ to H ⁺)	%	5
Outlet Resistivity* as: Single bed Mixed bed	MΩ•cm	≥ 12 ≥ 18
ΔTOC* as: Single bed Mixed bed	ppb	≤ 15 ≤ 3

* Resistivity and TOC rinse performance measured after 3 hrs. at 20 BV/h with rinse water ≥17.5 MΩ•cm.

** Uniformity coefficient max. 1.2



OPERATING CONDITIONS

Max operating temperature	°C °F	120 248
pH operating range	pH	0 – 14
Minimum Bed Depth	mm Inch	800 31.5
Service flow rates	BV/h gpm/ft ²	10 – 60 4.1 – 24.6
Regenerant		HCl H ₂ SO ₄
Regenerant Concentration	HCl H ₂ SO ₄ %	4 – 6 1 - 4
Regenerant level	g/l Lb/gal (US)	50 – 150 0.25 – 1.25
Regenerant flow rate	m/h ft/h	2 – 10 6.6 – 32.8
Total rinse requirement	BV	2 - 10
Max pressure drop	bar psig	1.5 21

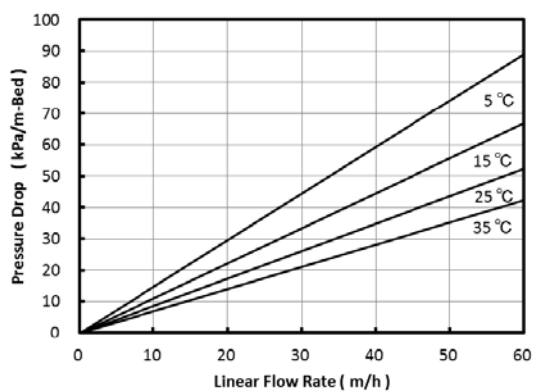


Fig. 1 Pressure Drop

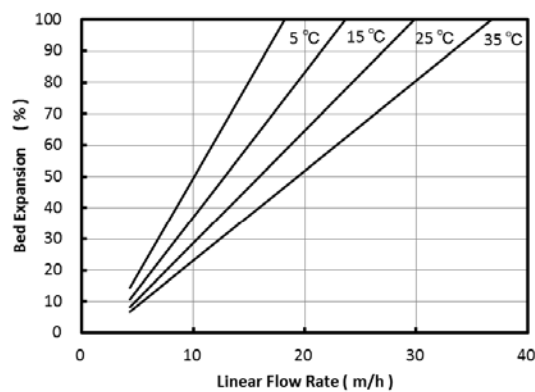


Fig. 2 Bed Expansion

Note:

The values in this document are for guidance only. Ovivo excludes liability for the information in this document.

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