



DOWEX MONOSPHERE UPW Resins

Product Overview

Product name Description	Total capacity eq/l min.	Uniformity coefficient max.	Water content %	Max. operating temp °C	Composition
DOWEX* MONOSPHERE* 650C UPW (H) Cation exchange resin, gel type	1.9	1.1	46-51	120	99% min. H conversion
DOWEX MONOSPHERE 550A UPW (OH) Anion exchange resin, gel type	1.0	1.1	55-65	60	95% min. OH conversion
DOWEX MONOSPHERE MR-3 UPW Mixed ion exchange resins, gel type	1.9 (H) 1.0 (OH)	1.1	46-51 55-65	60	DOWEX MONOSPHERE 650C UPW (H) DOWEX MONOSPHERE 550A UPW (OH)
DOWEX MONOSPHERE MR-450 UPW Mixed ion exchange resins, gel type	1.9 (H) 1.0 (OH)	1.1	46-53 55-65	60	DOWEX MONOSPHERE 350C UPW (H) DOWEX MONOSPHERE 550A UPW (OH)

General Information

DOWEX MONOSPHERE UPW grade resins are polymerized to meet the evolving and stringent performance requirements for ultra pure water used by the semiconductor and microelectronics industry.

Significant product properties of UPW grade resins that influence performance are:

- Very high conversion to an ionic form.
- Lowest ionic and metallic residuals characteristic of the manufacturing process.
- Lowest TOC extractables.
- Attainment of 18.3 megaohm.cm (0.055 μ s/cm) water quality in less than four bed volumes of rinse (mixed bed UPW grade resins).
- Greater than 95% WUB (whole uncracked bead) count.
- High resistance to attrition, thus preventing generation of fines as the resin ages in service.
- Outstanding mechanical integrity.

This product portfolio is designed to meet roughing stage, polishing stage, two bed and mixed bed application in the production of ultra pure water.

For additional information, please refer to specific data sheets.

DOWEX Ion Exchange Resins
For more information about DOWEX
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Warning: Oxidizing agents such as nitric acid attack organic ion exchange resins under certain conditions. This could lead to anything from slight resin degradation to a violent exothermic reaction (explosion). Before using strong oxidizing agents, consult sources knowledgeable in handling such materials.

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