

# DOWEX Ion Exchange Resins For Condensate Polishing

## Product Overview

DOWEX\* condensate polishing grade resins are premium grade products with high exchange capacity, excellent resistance to attrition, and good resistance to thermal and oxidative degradation. DOWEX MONOSPHERE\* resins are uniform particle size resins specifically designed for use in mixed beds. These resins are ideally suited to the high flow rate demands of condensate polishing applications.

Product	Resin Types	Matrix	Ionic Forms	Total Capacity eq/l, min.	Water Content %	Uniformity Coefficient	Particle Size microns			WUBS†	Crush Strength g/beat		H <sup>+</sup> , min.	Cl <sup>-</sup> , max.
							mean	% >850	% <300		Avg., min.	% >200		
DOWEX MONOSPHERE 575C	Strong Acid Cation	Styrene DVB Gel	H <sup>+</sup>	2.15	41-46	1.1	550±50	5	0.5	95	500	95	99.7	–
DOWEX MONOSPHERE 650C	Strong Acid Cation	Styrene DVB Gel	H <sup>+</sup>	2	46-51	1.1	650±50	5	0.5	95	500	95	99.7	–
DOWEX GUARDIAN CR-1	Strong Acid Cation	Styrene DVB Gel	H <sup>+</sup>	1.7	51-57	1.1	550±50	5	0.5	95	350	95	99	–
DOWEX MONOSPHERE MP-525C	Strong Acid Cation	Styrene DVB Macroporous	H <sup>+</sup>	1.6	50-54	1.1	500±50	–	1	95†	350	95	–	–
DOWEX MONOSPHERE 550A	Strong Base Anion Type 1	Styrene DVB Gel	OH <sup>-</sup>	1.1	55-65	1.1	590±50	5	0.5	95	350	95	–	0.5
DOWEX MONOSPHERE 700A	Strong Base Anion Type 1	Styrene DVB Gel	OH <sup>-</sup>	1.1	55-65	1.1	700±50	5	0.5	95	350	95	–	0.5
DOWEX MONOSPHERE MP-725A	Strong Base Anion Type 1	Styrene DVB Macroporous	OH <sup>-</sup>	0.8	65-75	1.1	690±50	5	0.5	95†	–	–	–	0.5
DOWEX MONOSPHERE 600 BB	Inert	Styrene DVB Acrylate Gel	Inert	–	–	1.1	600±50	–	–	–	–	–	–	–

Product	Resin Types	Matrix	Ionic Forms	Total Capacity eq/l, min.	Water Content %	Uniformity Coefficient	Particle Size microns			WUBS†	Crush Strength g/beat	H <sup>+</sup> , min.	Cl <sup>-</sup> , max.	
							mean	% >900	% <400					
DOWEX MONOSPHERE 750C	Strong Acid Cation	Styrene DVB Gel	H <sup>+</sup>	1.9	46-51	1.15	765±25	5	0.5	95	500	95	99.7	–

†Data represents Whole Beads, min.



# DOWEX

## Ion Exchange Resins

For more information about DOWEX resins,  
call Dow Liquid Separations business:

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<http://www.dowex.com>

Product	Resin Types	Matrix	Ionic Forms	Total Capacity eq/l, min.	Water Content %	Uniformity Coefficient	Particle Size % max.			WUBS†	Crush Strength g/bead		H <sup>+</sup> , min.	Cl <sup>-</sup> , max.
							>16 mesh	<40 mesh	<45 mesh		Avg., min.	% >200		
DOWEX HCR-W2	Strong Acid Cation	Styrene DVB Gel	Na <sup>+</sup> H <sup>+</sup>	2.0	45-49	–	2	1	–	95	350	95	–	–
				1.8	48-54	–	2	1	–	95	350	95	–	–
DOWEX HGR-W2	Strong Acid Cation	Styrene DVB Gel	Na <sup>+</sup> H <sup>+</sup>	2.2	40-45	–	2	1	–	95	350	95	–	–
				2.0	47-51	–	2	1	–	95	350	95	–	–
DOWEX MSC-1 C	Strong Acid Cation	Styrene DVB Macroporous	H <sup>+</sup>	1.6	50-56	–	2	1	–	95†	350	95	99	–
DOWEX SBR-P C	Strong Base Anion Type 1	Styrene DVB Gel	Cl <sup>-</sup> OH <sup>-</sup>	1.2	50-57	–	2	–	1	95	350	95	–	–
				1.0	60-68	–	5	–	1	95	350	95	–	3
DOWEX SBR C	Strong Base Anion Type 1	Styrene DVB Gel	Cl <sup>-</sup> OH <sup>-</sup>	1.4	43-48	–	2	–	1	95	350	95	–	–
				1.1	50-60	–	5	–	1	95	350	95	–	1
DOWEX MSA-1 C	Strong Base Anion Type 1	Styrene DVB Macroporous	OH <sup>-</sup>	1.0	56-64	–	2	2	–	95	–	–	–	–

†Data represents Whole Beads, min.

**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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