

DOWEX Ion Exchange Resins For Nuclear Applications

Product Overview

DOWEX* NG grade resins are high quality resins with very good mechanical and chemical resistance. DOWEX NG grade resins have extremely low levels of residual metallic impurities and high levels of ionic conversion. DOWEX LC NG resins have residual chloride and sulfate levels less than 0.1% of the total ionic sites of the anion resin. These resins may be used in a variety of applications including radwaste treatment, pond water cleanup, reactor coolant cleanup, and high purity mixed bed demineralization.

Product	Resin Types	Ionic Forms	Total Capacity eq/l, min.	Water Content %	Particle Size <300 microns, max. (50 mesh)	WUBS† % min.	Crush Strength g/bead		Trace Metals (ppm dry resin, max.)									Heavy metals as Pb
							Avg., min.	% >200	Na	Fe	Cu	Al	Mg	Ca	Co	Pb	Hg	
DOWEX MONOSPHERE* 575C NG	Strong Acid Cation	H+	2.1	41-46	0.2	95	-	-	60	100	30	50	-	-	30	30	20	10
DOWEX MONOSPHERE 650C NG	Strong Acid Cation	H+	2.0	46-51	0.2	95	500	95	50	50	10	50	50	50	30	10	10	10
DOWEX HGR NG	Strong Acid Cation	H+	2.0	46-52	0.1	95	500	-	50	50	10	50	50	50	30	10	10	10
DOWEX MONOSPHERE 550A LC NG	Strong Base Type 1 Anion	OH-	1.1	55-65	0.2	95	350	95	40	50	10	50	50	50	30	10	10	10
DOWEX SBR LC NG	Strong Base Type 1 Anion	OH-	1.2	60 max.	0.2	95	350	95	40	50	10	50	50	50	30	10	10	10
DOWEX MONOSPHERE MR-575 LC NG	Strong Acid Strong Base Type 1	H ⁺ 1:1	2.1	41-46	0.2	95	500	95	20	25	10	15	50	50	8	20	15	10
		OH ⁻ by capacity	1.1	55-65	0.2	95	350	95	40	50	10	50	50	50	30	10	10	10
DOWEX MR-3 LC NG	Strong Acid Strong Base Type 1	H ⁺ 1:1	2.0	46-52	0.1	95	500	95	50	50	10	50	50	50	30	10	10	10
		OH ⁻ by capacity	1.2	60 max.	0.2	95	350	95	40	50	10	50	50	50	30	10	10	10

† Whole Uncracked Beads



DOWEX

Ion Exchange Resins

For more information about DOWEX resins,
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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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