



DOWEX Ion Exchange Resins

The following tables give resin wear-out rates through chemical and mechanical damage for the first year and for subsequent years in operation. In water treatment applications, typical resin lifetimes can range between 10-15 years for a cation and 3-8 years for anions. Uniform particle size resins such as DOWEX* MONOSPHERE* or DOWEX MARATHON* resins tend to last longer than their Gaussian size counterparts. Note that these figures are based on experience and are guidelines only; actual wear-out rates may differ significantly depending on operating conditions.

Resin wear-out guidelines for UPS and standard resins

DOWEX Resin Type	Chemical Loss		Mechanical Loss	
	1st year (%)	2nd year onwards (%)	1st year (%)	2nd year onwards (%)
DOWEX MAC-3	3	3	3	3
DOWEX HCR-S	2	1	3	2
DOWEX HGR – W2**	2	1	3	1
DOWEX MARATHON C	2	1	1	1
DOWEX MARATHON C-10	2	1	2	1
DOWEX MONOSPHERE 650C**	2	1	2	1
DOWEX MARATHON MSC	2	1	2	1
DOWEX SBR-P	7	5	5	3
DOWEX SBR	7	5	3	3
DOWEX MARATHON A	7	5	2	2
DOWEX MARATHON 11	7	5	2	2
DOWEX MONOSPHERE 550A**	10	5	3	2
DOWEX MARATHON MSA	7	5	3	2
DOWEX SAR	10	5	3	3
DOWEX MARATHON A2	10	5	2	2
DOWEX MWA-1	6	4	3	3
DOWEX MARATHON WBA	6	4	3	2
DOWEX MARATHON WBA-2	6	4	3	2

**Condensate polishing

DOWEX

Ion Exchange Resins

Resin wear-out guidelines for DOWEX UPCORE Mono resins

DOWEX Resin Type	Chemical Loss		Mechanical Loss	
	1st year (%)	2nd year onwards (%)	1st year (%)	2nd year onwards (%)
DOWEX UPCORE* MAC-3	3	3	3	3
DOWEX UPCORE Mono C-600	2	1	1	1
DOWEX UPCORE Mono MSC	2	1	2	1
DOWEX UPCORE Mono A-500	7	5	2	2
DOWEX UPCORE Mono A-625	7	5	2	2
DOWEX UPCORE Mono MSA	7	5	3	2
DOWEX UPCORE Mono A2-500	10	5	2	2
DOWEX UPCORE Mono WB-500	6	4	3	2

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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