

WK 100 Softener Resin

WK100 IS A MULTIPURPOSE, PREMIUM GRADE, STRONG ACID CATION EXCHANGE RESIN
WK100 IS SUITED FOR SOFTENING, DEALKALIZATION AND CHEMICAL PROCESSING APPLICATIONS.

OPERATING CONDITIONS

Maximum Operating Temp:	250°F (120°C) in H ⁺ form 280°F (140°C) in Na ⁺
Form:	Shipped in Sodium Form
Resin bed Depth:	24"(600 mm) to 36"(900 mm)
Maximum Service Flow:	15 gpm/ft ³ (120M ³ /Hr/M ³)
Backwash Expansion space:	40 to 75%
Backwash flow Rate for 40 to 75% expansion at 77°F (25°C)	4 to 10 gpm/ft ² (9 to 25 M ³ /Hr/M ²)
Regenerant:	NaCl for Na ⁺ form.
Regeneration level:	3.7 to 10.0 lbs NaCl/ft ³ (60-160 g NaCl/l)
Regenerant concentration:	5.0 to 15.0% for NaCl
Regeneration flow rate:	0.25 to 2 gpm/ ft ³ (2 to 16 M ³ /Hr/M ³)
Regeneration time:	20-60 minutes
Fast Rinse:	At service flow rate
Slow Rinse:	At regeneration flow rate
Rinse Volume:	25 to 40 gal/ft ³ (3 to 5 M ³ /M ³)

INFLUENT LIMITATIONS

Free Chlorine:	Not traceable
Turbidity:	Less than 2 N.T.U

WK 100 RESIN CHARACTERISTICS

Type	Strong acid cation exchange resin
Matrix Structure	Cross linked polystyrene (8%)
Functional group	Sulphonic acid
Physical form	Moist spherical beads
Ionic form	Hydrogen/ Sodium (KW100 is the sodium form)
Particle Size	0.3-1.2mm
Screen Size U.S.S (wet)	16-50
Total Exchange capacity	2.0 meq/ml (Na ⁺) form / 1.8 meq/ml (H ⁺)
Swelling (approx.)	Na ⁺ to H ⁺ 7%
Moisture content (approx.)	52% (H ⁺), 45% (Na ⁺)
Backwash settled density	50 to 52 lbs/ft ³ (800 to 840 g/l) in H ⁺ form 52 to 55 lbs/ft ³ (840 to 880 g/l) in Na ⁺ form
Operating pH range	0-14
Solubility	Insoluble in all common solvents
Shipping weight	0.82 Kg/l (approx.) in H ⁺ form 0.86 Kg/l (approx.) in Na ⁺ form

CAT280.2

RESIN PACKS							
PART NO	DESCRIPTION	TANK (1) 9x48 10x54	RESIN CUBIC FT	GRAVEL CUBIC FT (2)	WEIGHT POUNDS		
479900	RESIN PK	30	10X54 F	1	0.15	70	
479901	RESIN PK	45	10X54 F	1 1/3	0.15	90	
479902	RESIN PK	50	12X52 F	1 1/2	0.15	90	
479903	RESIN PK	70	13X54 F	2 1/4	0.30	150	
479904	RESIN PK	100	14X65 F	3 1/4	0.40	210	
479905	RESIN PK	120	16X65 F	4	0.55	260	
479906	RESIN PK	150	21X62 F	5	1.40	390	
479907	RESIN PK	240	24X72 F	8	2	600	
479908	RESIN PK	300	30X72 F	10	2 1/2	750	
479909	RESIN PK	450	36X72 F	15	3	1050	
479921	RESIN PK	120	18X54 S	4	1	300	
479922	RESIN PK	150	20X54 S	5	1	350	
479923	RESIN PK	180	20X54 S	6	1	400	
497724	RESIN PK	200	24X54 S	6 2/3	1 1/2	490	
479925	RESIN PK	225	24X54 S	7 1/2	1 1/2	530	
479926	RESIN PK	240	24X54 S	8	1 1/2	550	
479927	RESIN PK	300	30X60 S	10	2 1/2	750	
479928	RESIN PK	450	30X60 S	15	2 1/2	1000	
479929	RESIN PK	600	36X60 S	20	3 1/2	1350	
479930	RESIN PK	750	36X72 S	25	3 1/2	1600	
479931	RESIN PK	900	42X72 S	30	5	2000	
479932	RESIN PK	1200	48X72 S	40	11	3100	
479933	RESIN PK	1650	54X72 S	55	13	4050	
479934	RESIN PK	2100	60X72 S	70	16	5100	
479935	RESIN PK	2550	66X72 S	85	21	6350	
479936	RESIN PK	3000	72X72 S	100	26	7600	
480000	SOFTENER	RESIN	WK100	-	1	0	52
480012	GRAVEL	#20	-	-	0	1	100
480000	RESIN	PALLET			40	0	2080

NOTES:

F - FIBERGLASS OR POLY GLASS TANKS
 S - STEEL TANKS
 GRAVEL WEIGHT IS 100 POUNDS PER
 CUBIC FT.

