



Quality Assurance Laboratory

Format No. : QA/660
 Rev No. : 000

Certified Report

DATE	24-05-2016
CLIENT	V/O "TYAZPROMEXPORT" JSC,
PRODUCT	CXO-12(MP)(H+)
SALES ORDER NO	
IONIC FORM	HYDROGEN
TYPE	MACROPOROUS WEAK ACID CATION EXCHANGE RESIN

PARAMETER	SPECIFICATION	BATCH NOS				
		# 211319	# 211320	# 211321	# 211322	# 211323
TOTAL EXCHANGE CAPACITY (MEQ/ML)	MIN 4.1 MEQ/ML	4.12	4.16	4.14	4.19	4.2
MOISTURE CONTENT	44 % - 50 %	46.33	48.92	46.1	48.38	48.38
CRACKED & BROKEN BEADS %	5 % MAX	1	1	1	1	1
PARTICLE SIZE (0.3 TO 1.2 MM)	(0.3 TO 1.2 MM)	(0.3 TO 1.2 MM)				
VOLUME OF WORKING FRACTION %	95 % MIN	98.52	98.9	99.21	98.14	97.76
EFFECTIVE SIZE	0.45 – 0.55 MM	0.46	0.45	0.48	0.47	0.45
UNIFORMITY COEFFICIENT	1.7 MAX	1.50	1.53	1.52	1.60	1.60
Reversible Swelling, H ⁺ →Na ⁺ , %	70	70	70	70	70	70
Backwash settled density, g/l	750-790	760	777	768	759	785
Shipping density, g/l	750	750	750	750	750	750
Maximum operation temperature, °C	100	100	100	100	100	100

M.B. Dabare

**Q.A. INCHARGE
 THERMAX LIMITED**

HEAD OFFICE : THERMAX LIMITED 97-E ,BHOSARI INDUSTRIAL AREA,PUNE 411026,INDIA.
 REGD OFFICE : D – 13 , MIDC INDUSTRIAL AREA, CHINCHWAD , PUNE – 411 019 , INDIA.
 CORPORATE IDENTITY NUMBER :L29299PN1980PLC022787.



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PARAMETER	SPECIFICATION	BATCH NOS				
		# 211324	# 211325	# 211326	# 211327	# 211328
TOTAL EXCHANGE CAPACITY (MEQ/ML)	MIN 4.1 MEQ/ML	4.14	4.12	4.12	4.12	4.13
MOISTURE CONTENT	44 % - 50 %	46.92	44.1	45.7	45.89	45.9
CRACKED & BROKEN BEADS %	5 % MAX	1	1	1	1	1
PARTICAL SIZE (0.3 TO 1.2 MM)	(0.3 TO 1.2 MM)	(0.3 TO 1.2 MM)				
VOLUME OF WORKING FRACTION %	95 % MIN	95.46	98.6	96.00	96.47	95.8
EFFECTIVE SIZE	0.45 – 0.55 MM	0.45	0.49	0.48	0.47	0.45
UNIFORMITY COEFFICIENT	1.7 MAX	1.52	1.56	1.56	1.53	1.55
Reversible Swelling, H ⁺ →Na ⁺ , %	70	70	70	70	70	70
Backwash settled density, g/l	750-790	787	773	779	753	768
Shipping density, g/l	750	750	750	750	750	750
Maximum operation temperature, °C	100	100	100	100	100	100

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PARAMETER	SPECIFICATION	BATCH NOS				
		# 211330	# 211331	# 211332	# 211333	# 211334
TOTAL EXCHANGE CAPACITY (MEQ/ML)	MIN 4.1 MEQ/ML	4.12	4.12	4.14	4.16	4.12
MOISTURE CONTENT	44 % - 50 %	48.12	46.9	47.5	45.9	46.1
CRACKED & BROKEN BEADS %	5 % MAX	1	1	1	1	1
PARTICAL SIZE (0.3 TO 1.2 MM)	(0.3 TO 1.2 MM)	(0.3 TO 1.2 MM)				
VOLUME OF WORKING FRACTION %	95 % MIN	97.26	96.1	96.8	95.9	97.2
EFFECTIVE SIZE	0.45 – 0.55 MM	0.48	0.45	0.46	0.45	0.47
UNIFORMITY COEFFICIENT	1.7 MAX	1.65	1.58	1.57	1.60	1.57
Reversible Swelling, H ⁺ →Na ⁺ , %	70	70	70	70	70	70
Backwash settled density, g/l	750-790	763	783	755	772	761
Shipping density, g/l	750	750	750	750	750	750
Maximum operation temperature, °C	100	100	100	100	100	100

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