

Dow's highly purified Sodium
Carboxymethyl Cellulose (WALOCCEL™ CRT)
Ideal for Aqueous Electrode Binder in
Lithium Ion Battery (LIB)



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Function of WALOCEL™ in lithium ion battery electrodes

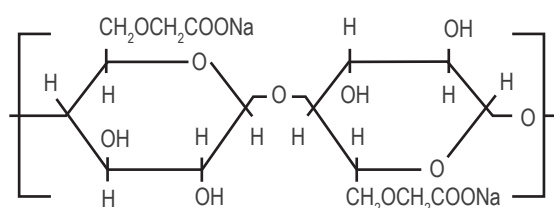
- Optimal dispersion of the active material & conductive additive
- Mechanical integrity during battery manufacturing & cycling
- Adhesion to current collector

Advantages of aqueous WALOCEL™ CRT vs. solvent-based binder formulations

- Eco friendly
- Slurry preparation can be done under ambient conditions, no special humidity control requirement needed
- Low drying temperature & short drying time
- Cost effective formulation and processes
- High electrode flexibility beneficial for winding operation
- Strong adhesion force to improve capacity

WALOCEL™ CRT characteristics

- High purity (>99.5%)
- Low moisture content
- Tailored degree of substitution
- Excellent quality consistency



WALOCEL™ CRT (Na CMC)

Product recommendations*

WALOCEL™	Viscosity **	Degree of substitution
CRT 2,000 PA 07	1,900 – 2,800 (2 wt-%)	0.75 – 0.85
CRT 2,000 PA	1,900 – 2,800 (2 wt-%)	0.82 – 0.95
CRT 20,000 PA 07	1,900 – 2,600 (1 wt-%)	0.75 – 0.85
CRT 20,000 PA	1,900 – 2,600 (1 wt-%)	0.7 – 0.95
CRT 30,000 PA	3,000 – 4,000 (1 wt-%)	0.82 – 0.95

* Further grades available on request

** Brookfield, 25°C



For more information please visit www.dowwolff.com

or contact us:

North America: +1 800 258 2436

Europe: +31 11 567 2626

Pacific: +60 3 7965 5392

Latin America: +55 11 5188 9000

Japan: +81 3 5460 2100

China: +86 21 3851 3380

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