

MATERIAL DATA SHEET

Technology : Primary Lithium Cylindrical and Button
 Chemical system : MnO₂ | DME, PC, LiClO₄ | Li
 Date : 2008-10-22

1. TYPE; VOLTAGE AND WEIGHT

Type Designation	Type-No.	Voltage (V)	Cell Weight (g)	Lithium Weight (g)
CR1216	6216	3.0	0.7	0.008
CR1220	6220	3.0	0.8	0.01
CR1616	6616	3.0	1.2	0.02
CR1620	6620	3.0	1.2	0.02
CR2016	6016	3.0	1.8	0.03
CR2025	6025	3.0	2.5	0.05
CR2032	6032	3.0	3.0	0.07
CR2430	6430	3.0	4.0	0.09
CR2450	6450	3.0	6.2	0.17
CR1/3N	6131	3.0	3.0	0.06
V28PXL	6231	6.0	8.8	0.05
CR1/2AA	6127	3.0	11.5	0.30
CR2/3AA	6237	3.0	15.0	0.44
CRAA	6117	3.0	21.5	0.58
CR2/3A	6238	3.0	17.0	0.58
CR2/3AH	6215	3.0	17.0	0.58
CR 2	6206	3.0	11.0	0,26
CR 123 A	6205	3.0	17.0	0,47
CRamic 1/2 AA	6129	3.0	11.5	0.30
CRamic 2/3 AA	6239	3.0	15.0	0.44
CRamic AA	6119	3.0	21.5	0.58

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2. INGREDIENTS

		Approx. percentage (%) of total weight
Active materials*	- Manganese dioxide - MnO ₂	13 - 40
	- Lithium - Li	1 - 3
	- Propylene carbonate - PC	3 - 9
	- 1,2 dimethoxy ethane - DME	1 - 5
	- Lithium perchlorate - LiClO ₄	0.3- 1.5
Main passive materials*	- Steel	33 - 74
	- Plastic	3 - 10
	- Glas / Ceramic	0 - 0.5
Mercury content - Hg < 0.1 mg/kg		
Cadmium content - Cd < 1 mg/kg		
Lead content - Pb < 10 mg/kg		
contains perchlorate		

* The cell is sealed, no chemical hazard will be posed as long as the cell remains in sealed condition.

3. SAFETY GUIDELINE

- 3.1 Keep out of the reach of children.
- 3.2 Do not heat nor dispose of in fire. May burst or release toxic materials.
- 3.3 Avoid forced discharge.
- 3.4 Do not short circuit.
- 3.5 Do not charge.
- 3.6 Do not solder the battery directly.
- 3.7 Do not disassemble, apply excessive pressure or deform.
- 3.8 Avoid to place the battery in reverse polarity.
- 3.9 Battery disposal method should be in accordance with local and state regulations.
- 3.10 Prior to any use read the "Sales Program and Technical Handbook - Primary Lithium Cells".

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