



Title POLYON Coated Muriate of Potash
Regular and Mini sizes

No. PD-7

Issued May 13, 2003 **Supercedes** January 9, 1998

Product Names: POLYON® Coated Potash, PC-MOP, PC-KCl
Polymer Coated Fertilizer (PCF), Muriate of Potash

Note: Polymer Coated Fertilizer is an Association of American Plant Food Control Officials (AAPFCO) Definition (T-32), Official Pub. No. 51, 1998

Label Guaranteed Analysis 0-0-59

Soluble Potash (K₂O)*59.0%

Source of Nutrient: Polymer coated muriate of potash

*56% slowly available potash from polymer coated fertilizer, muriate of potash, as manufactured, per AOAC 970.04 (Katz) method. See reverse for AOAC test method description.

Total Chlorine (Cl) 45.6% max.

Controlled Release Profile (CRP): The CRP is the cumulative percentage of potash (K₂O) released from the polymer coated muriate of potash by osmotic diffusion through the polymer membrane coating measured at intervals over a period of time. There is good correlation of release between laboratory static water immersion CRP tests of POLYON coated potash and field tests when tested at similar temperatures. Typical CRPs for POLYON coated potash, -6+14 sieve size granules are given in the table below:

	%K ₂ O	Approx. Weeks to Release** at Turf/Soil Temps.		
		60°F	70°F	80°F
Regular	59	32	24	18
Mini	59	24	18	12

** Release to 80%

Caution: POLYON polymer coated muriate of potash is designed specifically for turf and not for use in container grown nursery stock or bedding plants.

(over)

Abrasion/Impact Resistance: The POLYON polymer coating is tough and durable; and, therefore, its release control quality remains unaltered even when subjected to harsh conveying, blending, or application operations. This means label guarantees for controlled release potash can be met consistently when tested by the state fertilizer control chemists.

Official Test for Coated Slow Release Label Guarantee: The label guarantee for coated slow release potash, CSR-K₂O, is as manufactured and shipped, per the Association of Official Analytical Chemists, AOAC 970.04 test method, commonly referred to as the Katz test, the method approved by the Association of American Plant Food Control Officials, AAPFCO. The percentage of unreleased potash is determined after a 2-hour water leaching (dynamic flow) test conducted at 70°F to 75°F. This official test method for the label guarantee does not predict the actual release time of the potash, which remains unreleased after the 2-hour test period.

Moisture Resistance: During storage POLYON coated potash remains dry and free flowing even in hot, humid conditions.

Screen Analysis (Typical) and Size Guide Number (SGN):

Regular size

<u>U.S. Sieve</u>	<u>% Retained Cumulative</u>	<u>% Retained on Each</u>	<u>SGN</u>
6	5	5	
7	17	12	217
10	62	45	
12	81	19	
16	100	19	

Mini size

10	1	1	
12	9	8	135
14	25	16	
16	67	42	
20	83	16	
35	100	17	

Bulk Density: 68 lbs. per cu. ft. loose pour

Angle of Repose: 31°