

**Certificate of Analysis**

	<p><b>Customer Order:</b></p> <p>Ordered Quantity: 5.000 IBC                  Shipped From: MISSISSAUGA SOUTH PLANT                  Order Number:                  Delivery:                  Date Shipped: September 21, 2016</p>
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PVP K-15 SOLUTION IBC 1040L 1  
 PVP K-15 SOLUTION  
 Ashland Material Number: 831123  
 Customer Material Number:

Characteristics	Specification	Batch:
Appearance @ 25 deg. C - Pale yellow liquid	PASS	PASS
K-Value (5% solids w/v aqueous solution, W1307)	13 - 19	17
Color (APHA, 5% solids w/v aq. soln. W621)	<= 100	62
ppm Vinyl Pyrrolidone (GPC, W1512)	<= 100	0
% Solids (R.I, W1183)	28.0 - 32.0	29.9
pH (25 deg. C, 5% solids, w/v aq soln. Q231)	4 - 7	5
% Ash (Residue on Ignition or Sulphated, W1381)	<= 0.20	0.13
Total Aerobic Plate Count, CFU/g (Q200) Pass equals <=10	PASS	PASS
Date of Manufacture		July 15, 2016
Retest Date		July 15, 2017
Ordered Quantity		5.000 IBC

Notes:

Responsible Manufacturing Facility:  
 ISP Freetown Fine  
 Chemicals Inc.  
 Affiliate of Ashland Inc.  
 238 SOUTH MAIN STREET  
 ASSONET MA 02702

This COA is printed from a secure computer system ensuring the batch was properly released by the Quality Department and is valid without signature.