

# Certificate of Analysis

Product	Charkit Product Code	Lot #:	Document Date:
<b>POLYVINYL PYRROLIDONE K30</b>	<b>1607990802</b>	<b>P180622101</b>	<b>7/12/2018</b>

Test Parameter:	Unit:	Specification:	Result:
Appearance		White powder	Conforms
K value		27 – 32	31.3
pH (5% aqueous solution)		3.0 – 7.0	3.6
Moisture	%	5.0 max	4.1
Content	%	95 min	95.9
Residue on Ignition	%	0.1 max	0.05
Vinyl Pyrrolidone	ppm	100 max	100
Aldehyde (as acetaldehyde)	ppm	500 max	400
Heavy Metal (as Pb)	ppm	10 max	<10
Hydrazine	ppm	1 max	<1
Peroxide (as H <sub>2</sub> O <sub>2</sub> )	ppm	400 max	<400

PO 11339

109 drums

10393 KT

APPROVED

NOV 02 2018

**Additional Information:**

Manufacture date: 6/22/2018  
 Expiry date: 6/21/2021

*No wood packaging material contained.*

This certificate of analysis has been transmitted electronically and is valid without a signature.