# technical data sheet



personal care specialties

ashland.com

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BULLETIN VC-940-1 (supersedes VC-940)

# aqualon™ EC-N200 PC ethylcellulose

oil-soluble thickener and film former

#### formulator benefits

film former and thickener can obtain clear oil gels

#### formulation benefits

multi-functional

add to the allure of makeup formulas with brightness and a subtle, satin shine

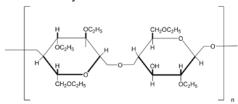
may be suitable for use in vegan and vegetarian formulas

## applications

skin care

product forms emulsion, gel cream, gel, mousse, solution, spray, mask, wipe, solids/sticks, powder, oils

#### chemistry



non-ionic ethyl ether of cellulose for personal care

INCI name: Ethylcellulose does not contain preservatives

#### typical properties

RESPONSIBLE CAR

## formulation guidelines

recommended use levels	1-10%
temperature/mixing conditions	heat (75° - 85°C) is required for solubilization in compatible solvents mix well until smooth
when to add	add to oil phase with heat premix in compatible solvent at high temperature (75° - 85°C)
tips from our technical solvers	soluble in alcohol at room temperature soluble in some materials at high temperature (75° - 85°C) no neutralization required disperse into compatible solvent at room temperature then add heat, mix until uniform and cool slowly suitable for anhydrous formulations list of compatible solvents available on page 3

#### safety, handling, and storage

Additional information concerning safety, handling and storage is supplied in the safety data sheet, which can be made available upon request. Such information includes:

- o classification and labelling per regulation for transport and for dangerous substances
- o protective measures for storage and handling

A toxicology summary can also be made available, on a confidential basis, by contacting Ashland's toxicology department.

## regulatory

CAS No. 9004-57-3

INCI name ETHYLCELLULOSE is listed on the China IECIC-CFDA-2015. other regulatory information available on request.



#### known solvents<sup>1,2</sup>

20-40 min 40-75 min	clear clear opaque at RT (wax) clear clear clear	medium low medium low low low
	clear opaque at RT (wax) clear clear clear	low medium low low
	opaque at RT (wax) clear clear clear	low low
40-75 min	clear clear	low low
40-75 min	clear clear clear	low
40-75 min	clear	low
	clear	IO\4/
	i	10 44
I	clear	high
-	hazy	low
	hazy	
more than 75 min	poor solubility	
	very hazy	
	hazy	very high
	poor solubility	
	opaque at RT (wax)	
1		
20-40 min	slightly hazy	very low
	clear	high
40-75 min	clear	high
	clear	high
	clear	high
•	•	•
40-75 min	clear	high
More than 75 min	clear	very high
	clear	very high
	20-40 min 40-75 min 40-75 min More than 75	more than 75 min  20-40 min  20-40 min  20-40 min  40-75 min  40-75 min  40-75 min  Clear  clear

<sup>\*</sup>Viscosity profile key (values are in cP): low= below 6000, medium= 6000- 30,000, high= 30,000-100,000, very high= above 100,000



<sup>&</sup>lt;sup>1</sup> 1% Aqualon<sup>™</sup> EC N200 added under strong agitation, heated to 75-80 °C, and mixed under strong agitation until dissolved.

 $<sup>^{2}</sup>$  this is not meant to be an exhaustive list of potential solvents.