



BULLETIN VC-942

## antaron™/ganex™ V-220 and V-220F polymers

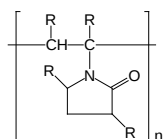
*excellent film former that provides water and wear resistance*

|                                                                                                           |                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>formulator benefits</b><br>film former<br>pigment dispersant<br>boosts SPF<br>improved stick integrity | <b>formulation benefits</b><br>better feeling, more efficacious sunscreens in different product forms<br>longer wear and wear resistance<br>waterproofing and moisture barrier<br>eyelash curling<br>reduce appearance of white residue in antiperspirant sticks<br>transfer resistance |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

leave-on skin care applications

**product forms** emulsion, gel cream, gel, mousse, solution, spray emulsions, mask, solids/sticks

### chemistry



alkylated PVP, Alkylated Polyvinyl Pyrrolidone with Eicosene 30/70 ratio

INCI name: VP/Eicosene Copolymer

non-preserved

### typical properties

Antaron V-220 F appearance.....off-white to yellow waxy flakes  
 Antaron V-220 appearance.....off-white to yellow waxy solid  
 solubility.....oil, alcohol  
 melt point.....37C  
 monomer VP.....20 ppm

## formulation guidelines

|                                        |                                                                                                                                                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>recommended use levels</b>          | 1-5%                                                                                                                                                                                                                  |
| <b>temperature/mixing conditions</b>   | not cold processable<br>heat required to melt with oil phase                                                                                                                                                          |
| <b>when to add</b>                     | oil phase with heat                                                                                                                                                                                                   |
| <b>tips from our technical solvers</b> | suitable for broad pH range<br>known compatibilities: cationics, anionics, nonionics, organic and inorganic sunscreens, silicones, carbomer, gums, iron oxides, lamellar gels<br>recommend using nonionic emulsifiers |

## 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. 28211-18-9

INCI names of components are listed on the China IECIC-CFDA (2015). Chinese INCI name of VP/Eicosene Copolymer, approved in IECIC 2015.

other regulatory information available on request.