

## AG-E600 Water/oil/alcohol repellent for nonwoven fabrics

### ADVANCED C6 TECHNOLOGY BY AGC

#### Fluorotelomer Based C6 Technology

AsahiGuard E-Series is a fluorinated water, oil and alcohol repellent providing sustained alternatives to the performance nonwoven market based on proven AGC C6 chemistry.

AsahiGuard E-Series offers high performance properties with improved environmental and biological profiles at the same time. AsahiGuard E-Series is PFOA FREE at or above detection limits.

#### What is C6?

##### Alternative short-chain C6 PFC versus long-chain C8 PFC

- C6 is proven safe for their intended use
- Evaluated by industry and regulators providing data that they are safe and effective
- C6 fluorinated polymers cannot break down to form PFOA or PFOS

#### AGC has....

- Proven world class C6 production capability and quality since 2006
- Leading the US EPA2010/2015 PFOA Stewardship Program with 100% conversion from C8 to C6
- Patented and innovative AGC C6 WOR technology
- Full product line offering to meet all performance requirements and production capacity for global demands
- Continued C6 based product development and performance innovation
- AsahiGuard E-Series adds value and performance for advanced nonwovens

#### Appendix: Patent in each countries

Country	Patent No.
Japan	JP5110064B2
Canada	CA2412602C
China	CN100445344C
Germany	EP1298180B1
France	EP1298180B1
Great Britain	EP1298180B1
Italy	EP1298180B1
South Korea	KR100889714B1
Taiwan	TWI301152B
US	US6716944B2



## AG-E600 Features

- Provides an excellent alcohol repellency for polypropylene nonwoven (ex. PP-SMS, PPSMMS)
- Has excellent compatibility with auxiliary agents
- Allows for lower doses of anti-static agents
- Is nonflammable
- Is an Alkylphenoethoxylate (APEO) free product
- Does not contain perfluorooctanoic acid (PFOA), \*longer chain length-perfluorocarboxylic acids (PFCAs) or their precursors. (At or above detection limit) [\*longer chain length; Carbon number>8]

Nonwoven	SMS	SMMS
Alcohol Repellency	8	8
Oil Repellency	5	5-6
Water Resistance (mmH <sub>2</sub> O)	674	464
Surface Resistivity (G ohm)	< 100	< 100

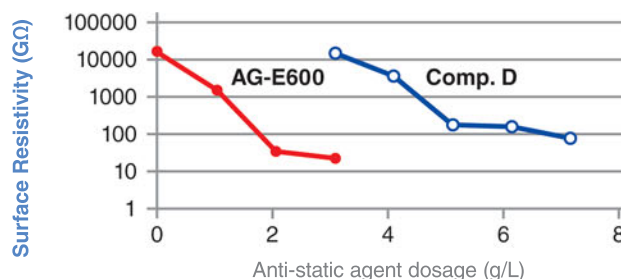
**Table:** The performance of AG-E600 for PP nonwoven.

## Physical Properties

Appearance	Milky white emulsion
pH	Acidic
Specific gravity	1.1 @20degC:
Solid content	25%
Ionic charge	Amphoteric
Solubility	Easily diluted in water

**Figure:**

**The anti-static performance of AG-E600 and competitor product for PP nonwoven.**



# AGC

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