

## FOR AUTOMOTIVE INTERIOR NONWOVEN FABRICS

### ADVANCED C6 TECHNOLOGY BY AGC

#### Fluorotelomer Based C6 Technology

AsahiGuard E-Series is a fluorinated water and oil repellent with stain release properties providing sustained alternatives to the performance automotive interior nonwoven fabrics 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
- Patented and innovative AGC C6 WOR technology
- Robust vertically integrated manufacturing capacity and a sophisticated supply chain to meet global demand
- Responsive global network of technical support and application development

#### AsahiGuard E-Series Features

- Dual action product (repel/release) with low friction finish
- Excellent weatherability and protection
- Provides a moisture barrier and breathable release surface
- Durable, non-flammable, odorless and transparent
- Versatile compatibility with auxiliary agents
- Easily applied to base materials before or after installation

#### Typical Applications

- Under the hood noise dampening
- Assorted acoustic and thermal insulation
- Oil, cabin, carburetor and air filter media
- Linings for trunk, center console, rear shelf and roof
- Various seating fabrics and reinforcements
- Window frames, dashboard, and door panel trim, coverings and reinforcements
- Molded fuel tanks and muffler wraps
- Transmission panel and bodywork parts
- Battery separators and more...



## Asahi Guard-E Series Product Line Up for Automotive Interior Fabrics

- AG-E100 for stain release
- AG-E550D for repellency and stain release
- AG-E082 for repellency
- AG-E600 for repellency and stain release

### Test Results from Six Formulations of AG-E100 and AG-E082 on White and Blue Polypropylene Nonwoven – PP-SMS

White PP-SMS	Reagent Loading (g/L)	Ketchup	Mustard	Motor Oil	Cola	Marker	Lipstick	Total Score	% Easy Clean
Untreated		0	0	3	0	4	4	11	63%
IPA / AG-E100	10 / 50	0	0	0	0	2	2	4	87%
IPA / AG-E100	10 / 80	0	0	0	0	3	3	6	80%
IPA / AG-E100	10 / 100	0	0	0	0	2	3	5	83%
IPA / AG-E100 / AG-E082	10 / 30 / 20	0	0	0	0	2	2	4	87%
IPA / AG-E100 / AG-E082	10 / 50 / 30	0	0	0	0	2	2	4	87%
IPA / AG-E100 / AG-E082	10 / 50 / 50	0	0	0	0	2	2	4	87%

Blue PP-SMS	Reagent Loading (g/L)	Ketchup	Mustard	Motor Oil	Cola	Marker	Lipstick	Total Score	% Easy Clean
Untreated		0	0	5	0	4	4	13	57%
IPA / AG-E100	10 / 50	0	0	2	0	2	2	6	80%
IPA / AG-E100	10 / 80	0	0	2	0	2	2	6	80%
IPA / AG-E100	10 / 100	0	0	2	0	2	3	7	77%
IPA / AG-E100 / AG-E082	10 / 30 / 20	0	0	2	0	2	2	6	80%
IPA / AG-E100 / AG-E082	10 / 50 / 30	0	0	2	0	2	2	6	80%
IPA / AG-E100 / AG-E082	10 / 50 / 50	0	0	2	0	1	1	4	87%

#### Easy Clean Factor: %ECF

$$\%ECF = (30 - \Sigma \text{scores}) / 30 \times 100\%$$

#### Stain Rating Performance After Drying

- 0 No visible stain
- 1 Slight stain perceptible
- 2 Visible stain without clearly defined outline
- 3 Stain with a clearly defined outline but not very deep in color
- 4 Stain with a clearly defined outline, deep in color
- 5 Deep stain that clearly penetrated the fabric to substrates

# AGC

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