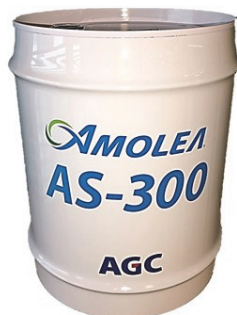


## **AGC Launches Global Sales of AMOLEA™ AS-300, a New Type of Environmentally-friendly Fluorinated Solvent**

Tokyo, October 2, 2018 – AGC, a world-leading manufacturer of glass, chemicals and high-tech materials, has announced the global sales launch of AMOLEA™ AS-300, a new type of environmentally-friendly fluorinated solvent. The product will be available from October 17.



This launch marks the first time ever to realize an environmentally-friendly fluorinated solvent that reduces Ozone Depletion Potential (ODP<sup>\*1</sup>) to almost "0" and Global Warming Potential (GWP<sup>\*2</sup>) to under "1". AMOLEA™ AS-300 not only exerts minimal impact on our global environment, but also delivers superior safety and cleaning solvency. Since announcing the product in October 2017, AGC has conducted detailed performance evaluations in cooperation with customers, which have verified its fitness in a wide range of applications. Now that mass production preparations have also been completed, the company will launch the official global sales of the product.

Fluorinated solvents have traits that give them advantages over other products. For instance, their non-flammability provides easy handling; low surface tension allows them to clean parts with complex shapes; and moderate boiling point helps keep usage volume down. This makes them ideal for a wide variety of applications that include cleaning of precision parts and optical components, and dilution as a carrier fluid for silicone oils.

Before this, AGC's Asahiklin™ AK-225 was already being used in a wide variety of applications to contribute to our global environment. It was also developed by AGC well ahead of the rest of the world, and provided a low-ODP (ozone depletion potential) fluorinated solvent that could be used as a CFC (Chloro Fluoro Carbon) substitute. However, rising environmental awareness in recent years has created strong demand in the world for new solvents with even lower Ozone Depletion Potential and Global Warming Potential.

AGC responded by developing AMOLEA™ AS-300 as a new fluorinated solvent to replace AK-225. This product reduces Ozone Depletion Potential to almost "0" and Global Warming Potential to under "1" while still delivering comparable boiling point, solvency, and safety levels to AK-225. With minimal impact on the global environment combined with superior solvency, AMOLEA™ AS-300 goes beyond just being a replacement for AK-225; it is also ideal for customers moving away from chlorinated solvents, and npropyl bromide solvents<sup>\*3</sup> which will be banned (except for specified uses) in Europe by July 2020, and can be easily used in existing vapor degreasers.

Under its **AGC plus** management policy, the AGC Group has made a commitment to create products that add various 'pluses' for stakeholders. Pluses for society include 'safety', 'security', and 'comfort', while pluses for customers include 'new value' and 'functionality'. AGC is dedicated to leveraging the technical strengths it has built up and refined through years of experience with fluorochemicals to continue develop and provide products that help in reducing environmental impact.

Notes:

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### **MEDIA INQUIRIES**

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AGC Inc.

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\*The company changed its name from Asahi Glass Co., Ltd. to AGC Inc. on July 1, 2018.

\*Handling of personal information is governed by our privacy policy.

1: Ozone Depletion Potential (ODP): A coefficient that represents the destructive effect of the unit weight of mass of substance emitted into the atmosphere, as compared with the potential of chlorofluorocarbon-11 (CFC-11) which is assigned a reference value of 1.

2: Global Warming Potential (GWP): A coefficient that represents the effect on global warming. It refers to a figure that expresses the global warming potential of greenhouse gases in relation to the baseline value of carbon dioxide.

3: n-propyl bromide (1-bromopropane): Based on toxicity data, the ECHA (European Chemicals Agency) has banned the use of such solvents in Europe, except for specified uses, from July 4, 2020 as described in Annex XIV of REACH (Registration, Evaluation, Authorization and Restriction of Chemicals).

## REFERENCE

### ■ About the AGC Group ■

AGC Inc.(Headquarters: Tokyo, President & CEO: Takuya Shimamura) is the parent company of the AGC Group, a world-leading glass solution provider and supplier of flat, automotive and display glass, chemicals, ceramics and other high-tech materials and components. Based on more than a century of technical innovation, the AGC Group has developed a wide range of cutting-edge products. The AGC Group employs some 50,000 people worldwide and generates annual sales of approximately 1.5 trillion Japanese yen through business in about 30 countries. For more information, please visit [www.agc.com/en](http://www.agc.com/en)

### ■ Physical properties of AMOLEA™AS-300 ■

Physical properties of AMOLEA™AS-300 are as below.

		AS-300	AK-225
Boiling point	°C	54	54
KB value*	-	44	31
Ozone Depletion Potential	-	≒ 0	0.03
Global Warming Potential	-	<1	274
Flash point	°C	none	none
Allowable Exposure Limit	PPM	250	100

\*Note: Value represents solvency

### ■ AMOLEA™ Series Lineup ■

The AMOLEA™ Series Lineup is listed below.

Generic name	Product name	Use
New environmentally-friendly fluorinated solvent	AMOLEA™AS Series	Various cleaning solvents and carrier solvents
Environmentally-friendly fluorinated solvent	AMOLEA™ AT Series	Various cleaning solvents and carrier solvents
New environmentally-friendly refrigerant	AMOLEA™1224yd	Various refrigerants
New environmentally-friendly refrigerant	AMOLEA™1234yf	Refrigerant for Mobile Air Conditioning

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