

Mitsubishi Chemical to Launch New Grade of ALPOLIC/fr INNER LIGHT™ with Deodorant and Antimicrobial Properties

Mitsubishi Chemical Corporation

Mitsubishi Chemical Corporation (MCC; Head office: Chiyoda-ku, Tokyo; President: Masayuki Waga) today announced the launch of a new grade of ALPOLIC/fr INNER LIGHT™, a fire retardant (fr) aluminum composite material for interior building materials that offers deodorant and antimicrobial properties.

ALPOLIC™ is a three-layered composite material made by bonding two sheets of aluminum to either side of extruded thermoplastic or mineral-filled, fire-retardant thermoplastic core. The ALPOLIC™ product lineup varies widely according to design, workability, and weather resistance properties, and it is used for a broad range of applications. MCC started producing ALPOLIC™ and selling it in the 1970s. Since then, MCC has maintained Japan's top share in the ACM (= aluminum composite material) market, and also distributed into more than 130 countries around the world as a global ACM leading manufacturer. In October of this year, MCC launched ALPOLIC/fr INNER LIGHT™, which adopted a newly developed highly fire retardant core, and successfully reduced the potential heat value per unit volume to one-tenth that of conventional ones. It has earned a high evaluation in the marketplace.

The coating film on the aluminum alloy surface of the newly launched ALPOLIC/fr INNER LIGHT™ now offers deodorant and antimicrobial properties and absorbs malodorous substances*¹ such as ammonia and hydrogen sulfide, components of odors such as feces, garbage, and smell of cigarettes and tobacco. It also has antimicrobial properties that resist staphylococcus aureus and colon bacillus, which cause food poisoning and diarrhea, and MCC plans to acquire the SIAA mark*² for the product in the future. MCC added ALPOLIC/fr INNER LIGHT™ to its lineup of interior building materials, and positioned restaurants and public bathrooms that require separate smoking areas, hospitals, welfare facilities and nursing homes, or kitchens at restaurants and homes as the optimal applications, with the aim of expanding sales in an even broader range of fields.

ALPOLIC/fr INNER LIGHT™ with deodorant and antimicrobial properties can be produced by pre-coating as part of the production process and reduce costs by eliminating the need to apply coatings with deodorant/antimicrobial properties in a subsequent process or at the construction site. In addition, the aluminum alloy surface gives a superior metallic-tone appearance and can reduce risks such as cracking and scattering of broken pieces.

(This product may not be supplied to the country that has own biocide regulation.)

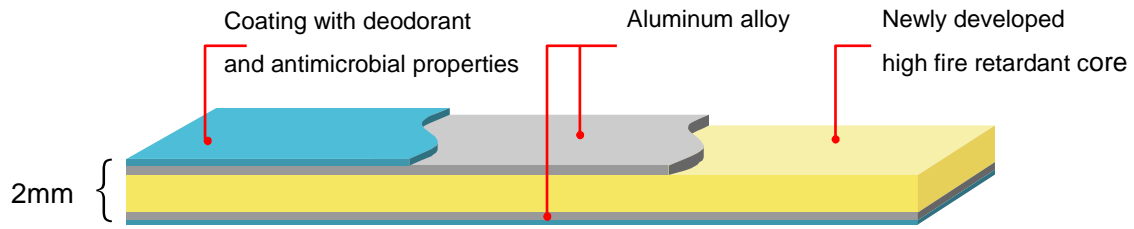
*1 It is not effective against all odors.

*2 Antimicrobial symbol mark established by The Society of International sustaining growth for Antimicrobial Articles (SIAA)

For further information, please contact:
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Reference

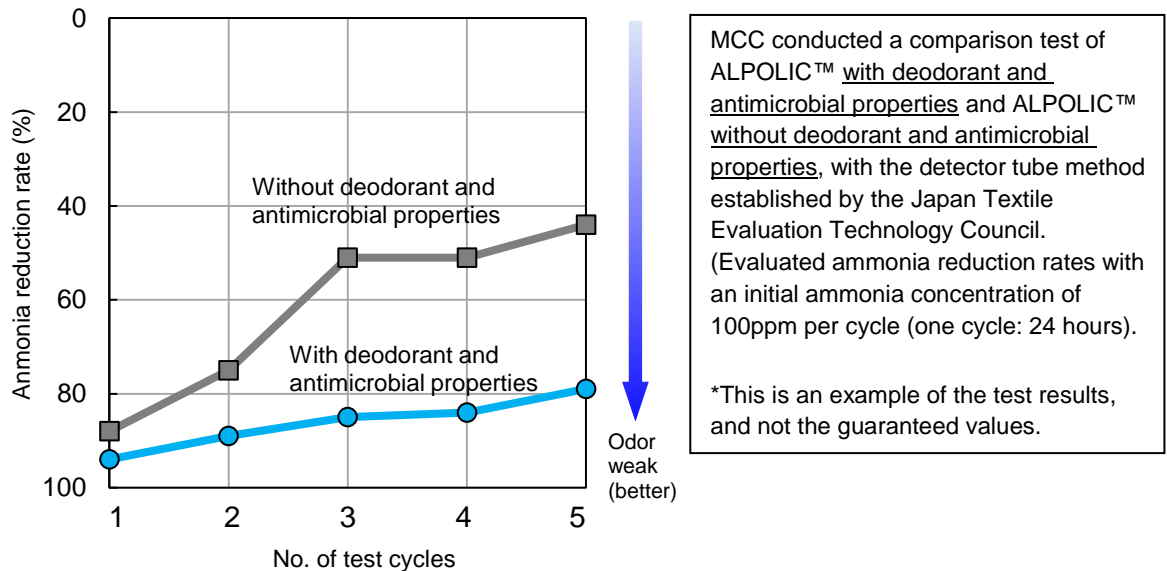
Composition of ALPOLIC/fr INNER LIGHT™ with Deodorant and Antimicrobial Properties



Lineup of ALPOLIC/fr INNER LIGHT™ with Deodorant and Antimicrobial Properties

Total thickness	Standard size	Weight/m ²	Weight/panel	Color
2.0mm	910mm×2,440mm	Approx. 3.9kg/m ²	Approx. 8.7kg/panel	White

Deodorant Property Comparison



JIS Z 2801:2012 Antimicrobial Products - Test for Antimicrobial Activity and Efficacy

Test Results

Test microbes	Measurement	Test specimen	No. of living microbes per test specimen 1cm ² (Average no.)
Staphylococcus aureus	Immediately after treatment	Untreated	1.8×10 ⁴
	35°C, after 24 hours	Untreated	5.4×10 ⁴
		ALPOLIC™ with deodorant and antimicrobial properties	<0.63
Escherichia coli	Immediately after treatment	Untreated	2.1×10 ⁴
	35°C, after 24 hours	Untreated	1.0×10 ⁵
		ALPOLIC™ with deodorant and antimicrobial properties	<0.63

(Untreated test specimen: Polyethylene film)