

The World's First: Mitsubishi Chemical's ALPOLIC™ Aluminum Composite Material Achieves European Fire Standard "Euroclass A1"

Mitsubishi Chemical Corporation

Mitsubishi Chemical Corporation (MCC; Head office: Chiyoda-ku, Tokyo; President: Masayuki Waga) today announced its new aluminum composite material (ACM) ALPOLIC™ has passed European Fire Standard "Euroclass A1", which is considered one of the strictest fire protection standards for building materials in the world. This is the first ACM in the world that is certified under the Euroclass A1 standard. With stronger fire standards taking effect globally in recent years, MCC has already launched its sale under the product name "ALPOLIC™ NC" in Australia and will begin to promote it under the name of "ALPOLIC™ A1" in Europe and other markets responding to strong market demands for a non-combustible ACM as a substitute for solid aluminum and other materials.

MCC's ALPOLIC™ ACM is a three-layered composite material made by laminating two sheets of aluminum to both sides of a core material. Thanks to its superior finishes, flatness, excellent processability and handling during construction work, the ALPOLIC™ lineup has been widely used in over 100 countries as trusted materials for various construction and industrial applications including buildings, civil engineering, and advertising signboards.

Core material combustibility comparison

		ALPOLIC™ PE	ALPOLIC™/fr	ALPOLIC™ A2	ALPOLIC™ A1 / ALPOLIC™ NC
Portion of combustible ingredients within the core material		100%	≤30%	≤10%	≤5%
					
Heat potential of the core material		≥46MJ/kg	≤14MJ/kg	≤3MJ/kg	≤1MJ/kg
Fire classification (Fire test standard)	Europe	Euroclass C-D (EN 13501-1)	Euroclass B (EN 13501-1)	Euroclass A2 (EN 13501-1)	Euroclass A1 (EN 13501-1)
	Australia				AS1530.1 <Non-combustible core material>

(At present, all other ACM brands could at most meet Euroclass A2 standard.)

MCC is conscious and concern about fire safety and will continually takes a proactive stance in promoting ALPOLIC™ A1 / ALPOLIC™ NC to the world.

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Examples of Buildings Using ALPOLIC™



Mistral Residential Tower (Izmir, Turkey)

Floor: 38 floors above ground; height: 154m; area using ALPOLIC™: 18,000m²



Marina Bay Sands (Singapore)

Floor: 57 floors above ground; height: 207m; area using ALPOLIC™: 55,000m²