

ALUCAST-M

Alkyl-Aryl Silicone Die-Release Fluid

DESCRIPTION

Alucast-M is a medium-viscosity alkyl-aryl functional silicone fluid, engineered to merge the benefits of silicone fluids and mineral oils. It excels in thermal-moulding applications involving low-melting non-ferrous metals such as aluminium, zinc and magnesium (automotive, appliance and aviation sectors) as well as rubber and plastics. It surpasses traditional silicone fluids especially when finished parts require painting, printing, coating or bonding: outstanding release properties mean minimal agent usage with precise reproduction of intricate surface details, plus remarkable film-forming capability.

PACK SIZES

Multiple pack sizes available on request.

APPLICATIONS

A reliable parting agent for aluminium, zinc, magnesium and other metals in die casting. An effective release agent for floor mats, tiles, seals, grommets, gaskets, toys, panelling and decorative trim. Can be incorporated into automotive polish formulations, and used as a built-in lubricant for the assembly and in-service lubrication of mechanical components.

COST-SAVING BENEFITS

- Excellent adherence to hot die surfaces — wets and cools the die quickly
- Tool and press corrosion protection
- Good lubricity with glossy, non-tacky surface effect
- High-quality surface finish; good paintability with little or no cleaning
- Prevents soldering or galling from insufficient die release · produces no smoke

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE
Appearance	Clear liquid
Colour	Light yellow
Active ingredient, %	100
Viscosity at 25 °C, cSt	1400 - 1800
Specific gravity at 25 °C	0.890 - 0.930
Refractive index, nD25	1.465 - 1.467
Volatile (150 °C, 3 h)	max 1.0 %

Typical values shown do not constitute a specification. The information is based on current knowledge and is intended to describe the product for possible applications; it does not release the user from performing preliminary tests.