

Product information

AirForge 2472

Hot Forging Protective Coating for Titanium

AirForge 2472 is a new developed protective and lubricant coating for hot forging processes of titanium alloys. It offers optimal results when metal protection against oxidation must be provided by insulating properties. AirForge 2472 consists of a dispersion of a micronised enamel composition with thermodynamic controlled properties and a system of solid lubricants in water.

AirForge 2472 can be used neat or slightly diluted in water. The dilution acts on viscosity and final thickness of the applied product. This allows to control carefully the lubrication properties and to adapt it to the operation.

AirForge 2472 is designed for being used either by dipping or spraying with standard or electrostatic spray system. After drying a very fine, homogenous film of solid lubricant composite with good adhesion appears. By its excellent lubricating properties this film strongly improves the material flow at forging temperatures; also the oxidation of the work pieces and gas diffusion is effectively prevented by this impermeable film. After the forging process residues of the lubricant film are studied to be easily removed by sand blasting or by etching.

Even at extremely difficult work piece shapes, AirForge 2472 provides excellent results and covers a wide range of operations, e.g. in blade forming processes, from extrusion to finishing operations at titanium alloys at temperatures > 760°C.

Technical properties

Colour	Light, grey	
Density at +20°C	Approx. 1.27 g/cm ³	ASTM D 1298
Temperature range	750 – 950°C	
Viscosity at these temperatures	6.8 – 4.5 dPas	
pH-Value	8.5	(neat product)
Application	Titanium alloys	< 950 °C

AirForge 2472 is free of lead or any other toxic components. Also it does not contain solvents and is not flammable.

AirForge 2472 has a shelf life of 12 month in the closed box, stored at 5 - 25°C room temperature (protect against frost) and has to be stirred up 3 - 5 min. with a mixer before it can be used.

For more information please observe our MSDS or our technical consultant.

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