

# Unionsil L, M, H

## SILICONE COMPOUND

- PRODUCT** Silicone Compound, non-melting, non-toxic, water-repellent, insulating.  
Aluchem products and plants have been also **Kosher** certified.
- PROPERTIES** The totally silicone nature gives to **Unionsil** high resistance to chemical, heat and oxidizing agents.  
**Unionsil** is non-toxic and odorless, and is ideal in applications where it is possible accidental contact with foodstuffs, cosmetics, pharmaceutical substances.  
With full water repellency, **Unionsil** provides complete antioxidant protection of the support in the presence of water and allows the insulation of electrical equipment, even with changes in temperature and humidity.  
**Unionsil** is available in three grades L, M and H, since it is thixotropic substances, it is not possible to provide consistency NLGI according to the classification, valid only for the proper lubricating greases:  
**Unionsil L** is a fluid paste of low consistency (approximately comparable to NLGI grade 0/1).  
**Unionsil M** is a paste of medium consistency (approximately comparable to NLGI grade 2).  
**Unionsil H** is a paste consistency adhesive medium-high (approximately comparable to NLGI grade 3).
- APPLICATION** **Unionsil** is suitable in all cases where there are wet conditions, corrosive liquids and vapors, or such as to require the protection of equipment operating in hostile environment.  
**Unionsil** does not drip, is infusible and highly resistant to oxidation, therefore suitable for the lubrication in the presence of high temperatures.  
**Unionsil** is suitable as:
- non-toxic and odorless lubricant in machinery for the food industry, cosmetics, pharmaceutical. Not suitable for fast bearings;
  - lubricant metal / plastic and plastic / plastic mounting adjuvant and protective seals and other elastomer-based components;
  - lubricant for joints, fittings, valves, even in hostile environments;
  - anti-adhesive for heat sealers;
  - lubricant for chains of extrusion of thermoplastics;
  - insulation and protection for electrical contacts/electronic heat sink in electronics;
  - sealant for electrical cables and connections;
  - mounting paste in metal/metal sliding contacts.
- The gradation **Unionsil H** is preferred where greater adhesion is required.

PTO

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Property	Method	Unit	Typical data for all grades
Colour	-	-	White Opalescent
Appearance	-	-	Solid-pasty
Thickener Nature	-	-	silicone
Consistency NLGI	Not applicable, thixotropic product		
Viscosity 40°C ( oil base )	ASTM D 445	mm <sup>2</sup> /s	460
Density at 20°C	ASTM D 1298	g/cm <sup>3</sup>	0,980 - 0,985
Dielectric strength	C.E.I 10-1/2004 EN 60156/1998	KV/mm	24
Thermal rating	-	°C	- 35 ÷ 200