

# HEMPEL'S SILICONE ALUMINIUM 56910

<b>Description:</b>	HEMPEL'S SILICONE ALUMINIUM 5691 is a heat resistant aluminium pigmented paint.
<b>Recommended use:</b>	For long-term protection of hot pipelines, exhaust pipes, smoke stacks and other hot surfaces up to 550°C/1020°F. In corrosive environment see PRECEDING COAT overleaf.
<b>Service temperatures:</b>	Maximum, dry: 600°C/1112°F.
<b>Availability:</b>	Subject to confirmation.

## PHYSICAL CONSTANTS

Colours/Shade nos:	Aluminium/19000
Finish:	Semi-flat ( <i>See REMARKS overleaf</i> )
Volume solids:	31%
Theoretical spreading rate:	12.4 m <sup>2</sup> /litre - 25 micron 497 sq.ft./US gallon - 1.0 mil
Flash point:	25°C/77°F
Specific gravity:	1.1 kg/litre - 9.2 lbs/US gallon
Surface dry:	1 (approx.) hour at 20°C/68°F ( <i>ISO 1517</i> )
Dry to touch:	2-4 hours at 20°C/68°F
V.O.C.:	585 g/litre - 4.9 lbs/US gallon

The physical constants are subject to normal manufacturing tolerances.  
Further reference is made to "Explanatory Notes" in the Hempel Book.

## APPLICATION DETAILS:

Application method:	Airless spray	Air spray	Brush
Thinner (max.vol.):	0808 (5%)	0808 (15%)	0808 (5%) ( <i>See REMARKS overleaf</i> )
Nozzle orifice:	.017"		
Nozzle pressure:	125 bar/1800 psi ( <i>Airless spray data are indicative and subject to adjustment</i> )		
Cleaning of tools:	THINNER 0808		
Indicated film thickness, dry:	25 micron/1 mil ( <i>See REMARKS overleaf</i> )		
Indicated film thickness, wet:	75 micron/3 mils		
Recoat interval, min:	24 hour (20°C/68°F) ( <i>See REMARKS overleaf</i> )		
Recoat interval, max:	See REMARKS overleaf		

## 2. HEMPEL'S SILICONE ALUMINIUM 56910

SURFACE PREPARATION:	Remove oil and grease etc. thoroughly with suitable detergent. Remove salts and other contaminants by (high pressure) fresh water cleaning. Abrasive blasting to Sa 2½, SSPC-SP-10.
APPLICATION CONDITIONS:	Clean and dry surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	Can be used directly on blast-cleaned steel. For maximum corrosion protection, a primer coat of one of the following paints is recommended (40 micron/1.6 mil dry film thicknesses): HEMPEL'S SILICONE ZINC 1690 or HEMPEL'S GALVOSIL 1570. This will lower the heat resistance to approx. 400°C/750°F.
SUBSEQUENT COAT:	None.
REMARKS:	
Gloss:	After exposure to heat the gloss is reduced.
Thermoplasticity:	The paint film is somewhat thermoplastic also after heating.
Film thicknesses:	It is recommended to avoid too high thicknesses of the paint as this will give a risk of blistering at later heating. THINNER 0808 must be added at application to secure the low dry film thickness.
High temperature service:	For high temperature service, the total dry film thickness of the paint system should preferably be kept at 75 micron/3 mils as maximum.
First exposure to heat:	Do not expose the paint system to heat before it is through dry (minimum 24 hours at 20°C/68°F).
Recoating:	May be recoated when through dry (24 hours at 20°C/68°F) or after being heated for one hour to approximately 200°C/392°F. Before recoating after exposure in contaminated environment, clean surface thoroughly by high pressure fresh water hosing and allow to dry.
Zinc silicate primer:	If HEMPEL'S SILICONE ALUMINIUM 5691 is applied on zinc silicate coatings, such as HEMPEL'S GALVOSIL 1570, popping may occur after application or after first heating up. The best way to avoid popping is to apply a mist coat in the first pass of HEMPEL'S SILICONE ALUMINIUM 5691. Let the air escape and apply the full coat of 5691.
Note:	<b>HEMPEL'S SILICONE ALUMINIUM 5691 is for professional use only.</b>
SAFETY:	Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance if swallowed. Avoid inhalation of possible solvent vapours or paint mist, as well as paint contact with skin and eyes. Apply only in well ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

This Product Data Sheet supersedes those previously issued. For definition and scope, see explanatory notes to applicable Product Data Sheets. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User. The Products are supplied and all technical assistance is given subject to HEMPEL's GENERAL CONDITIONS OF SALES, DELIVERY AND SERVICE, unless otherwise expressly agreed in writing. The Manufacturer and Seller disclaim, and Buyer and/or User waive all claims involving, any liability, including but not limited to negligence, except as expressed in said GENERAL CONDITIONS for all results, injury or direct or consequential losses or damages arising from the use of the Products as recommended above, on the overleaf or otherwise.  
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Issued by HEMPEL'S MARINE PAINTS A/S.

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