

PowerCat™ PT1000

New Materials Creating New Performances

**Quality Products.
Dependable Service.**

CHEMICAL NAME

Platinum(0) divinyltetramethylsiloxane complex

INTRODUCTION

PowerCat™ PT1000 is colorless to pale yellow liquid. It is a solution of platinum as a divinyltetramethyldisiloxane complex. It is high stability platinum formulation with low chroma and turbidity.

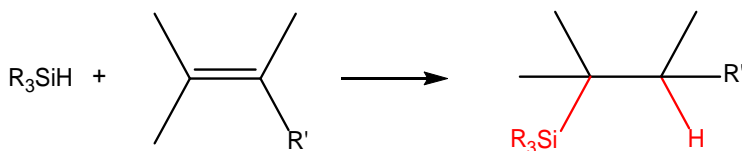
PowerCat™ PT1000 promotes the hydrosilylation reaction in addition cure systems at elevated temperature, with a long pot life at room temperature.

PHYSICAL PROPERTIES

CAS No.	68478-92-2
EC No.	270-844-4
Color	Colorless to pale yellow
Appearance	Clear liquid
Platinum content	1000ppm

PLATINUM CATALYSTS FOR HYDROSILATION

Hydrosilation (or hydrosilylation) is the addition of an H-Si bond across a double bond:



This reaction is used in the silicones industry to form cross-links in silicone polymers.

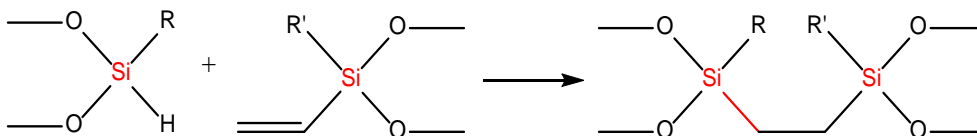
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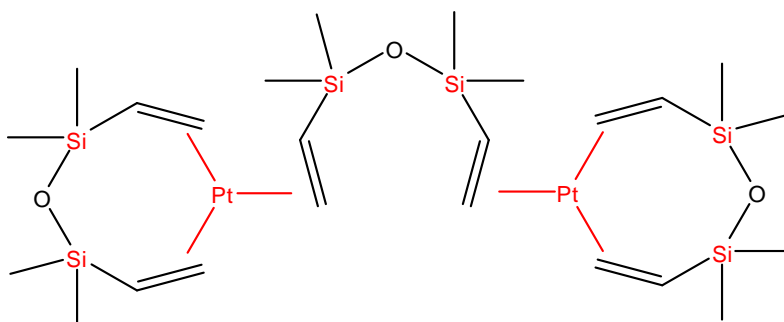
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Platinum compounds are extremely active catalysts for hydrosilation. The catalyst is often used at such low levels that it is not separated from the product.

Platinum(II) compounds such as Karstedt catalyst are active without an induction period, providing advantage over chloroplatinic acid.

PowerCat™ PT1000 is a compound of platinum(0) and divinyltetramethyldisiloxane:



PowerCat™ PT1000 is supplied in solution for easy dosing and formulation. It is designed to give low turbidity on formulation.

APPLICATIONS

PowerCat™ PT1000 is used as catalyst for addition curing crosslinking reaction between Si-Vinyl and SiH-groups.

PowerCat™ PT1000 promotes a quick, low temperature curing in the formation of silicone elastomers.

PACKING AND STORAGE

PowerCat™ PT1000 is supplied in 0.5Kg, 1Kg bottle and other packing on request.

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Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

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