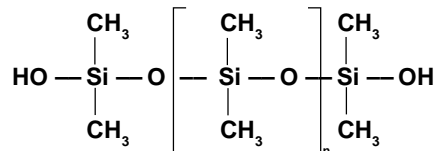




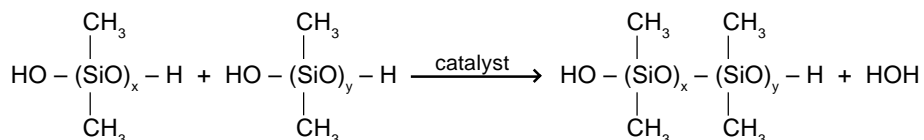
# Silanol Fluids



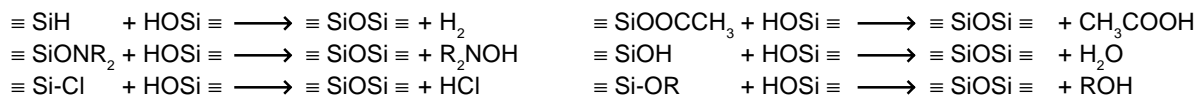
Product	Viscosity	OH/Silanol
Silastic® 4-2737 Fluid	38 - 45	3.6 - 4.0%
Dow Corning® 2-1273 Fluid (Europe Only)	50 - 120	2.50%
Dow Corning® 1-3563 Fluid (Outside Europe)	55 - 90	1.0 - 1.7%
Dow Corning® 3-0133 Polymer	2,000	1,530 ppm
Dow Corning® 3-0213 Polymer	3,500 - 4,500	1,260 ppm
Dow Corning® 3-0113 Polymer	6,000	1,300 ppm
Dow Corning® 3-0135 Polymer	11,000 - 14,000	740 ppm
Dow Corning® 3-0084 Polymer	12,000 - 15,000	830 ppm
Dow Corning® 3-0278 Polymer	20,000	620 ppm
Dow Corning® 3-0134 Polymer	50,000	400 ppm
Dow Corning® 5-0299 Polymer	60,000	510 ppm
Dow Corning® 3-3602 Polymer	80,000	325 ppm

## Condensation Cure

- Solvent-borne silicone resins, reactive (silanol) fluids and most RTV elastomers cure (crosslink) by condensation processes. A simple silanol condensation gives water as by-product:



- Other common reactions include:



- A variety of catalysts initiate and accelerate condensation cure. Amines, including aminopropylsilane derivatives, and carboxylic acid salts of lead, tin and zinc are commonly employed. Organic salts of iron, cadmium, barium, antimony, zirconium and cadmium have been investigated. Tin (II) octoates, laureates and oleates, as well as the salts of dibutyl tin, are particularly useful. The key requirement, besides catalytic activity, is solubility of the catalyst in the silicone polymer matrix. Strong acids (Brønsted and Lewis types) and bases effect condensation, but the reaction is difficult to control.

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