

## DENTAL



## Silicone Raw Materials For Dental Applications

### VINYL POLYMERS\*

PRODUCT	VINYL CONTENT	VISCOSITY
ANDISIL® VS 6	3.00 mmoles / gm	6 cSt
ANDISIL® VS 10	1.70 mmoles / gm	10 cSt
ANDISIL® VS 20	1.20 mmoles / gm	20 cSt
ANDISIL® VS 50	0.80 mmoles / gm	50 cSt
ANDISIL® VS 100	0.37 mmoles / gm	100 cSt
ANDISIL® VS 200	0.25 mmoles / gm	200 cSt
ANDISIL® VS 500	0.15 mmoles / gm	500 cSt
ANDISIL® VS 1,000	0.11 mmoles / gm	1,000 cSt
ANDISIL® VS 2,000	0.08 mmoles / gm	2,000 cSt
ANDISIL® VS 4,000	0.07 mmoles / gm	4,000 cSt
ANDISIL® VS 5,000	0.06 mmoles / gm	5,000 cSt
ANDISIL® VS 10,000	0.05 mmoles / gm	10,000 cSt
ANDISIL® VS 20,000	0.04 mmoles / gm	20,000 cSt
ANDISIL® VS 65,000	0.03 mmoles / gm	65,000 cps
ANDISIL® VS 80,000	0.024 mmoles / gm	80,000 cps
ANDISIL® VS 100,000	0.02 mmoles / gm	100,000 cps
ANDISIL® VS 165,000	0.015 mmoles / gm	165,000 cps

### SPECIALTY POLYMERS\*

PRODUCT	VINYL CONTENT	VISCOSITY
ANDISIL® VDM 500	0.28 mmoles / gm	500 cSt
ANDISIL® VDM 65,000	1.30 mmoles / gm	65,000 cP
ANDISIL® MV 2,000	0.06 mmoles / gm	2,000 cSt

### PLATINUM CATALYSTS\*

TYPE	%, PT	DILUENT
KARSTEDT	1-3.25	200, 500, 1000 cSt VINYL
ASHBY'S CATALYST	2.0	VINYL CYCLIC

#### VS

**ANDISIL®** Vinyl Polymers are vinyl-terminated dimethylpolysiloxanes that are available in a variety of viscosities. They can be used as base polymers or as blend polymers in order to create the desired hardness. These polymers can be cured with silicon-hydride crosslinkers and a platinum catalyst. Low volatility polymers are available upon request.

#### VDM

**ANDISIL®** VDM 500 & 65,000 Polymers are vinylmethyl-dimethyl polysiloxane copolymers that are also vinyl-terminated. The products have pendant vinyl groups along the polymer backbone to enhance the crosslink density of the cured RTV (Room Temperature Vulcanization).

#### MV

The **ANDISIL®** MV 2,000 polymer is a partially mono-functional vinyl polymer to reduce the durometer of the RTV formulation with minimal bleeding of fluid from the cured material. It may slow the curing of the RTV, but with the use of a faster platinum catalyst, it will help give a good normal cure.

\* These properties are not intended to be used as specifications but only as suggested characteristics.



We believe that the information shown in this Product Bulletin to be an accurate description of the typical characteristics and/or uses of the product. Any suggestions of uses are not to be taken as an inducement to infringe any particular domestic or foreign patent. We recommend that the product be thoroughly tested for a specific application to determine the performance, efficacy and its safe handling and use.

AB Specialty Silicones | 3725 Hawthorn Court | Waukegan, IL 60087

☎ 908.273.8015 | TOLL FREE 800.678.3024 | FAX 908.273.8056 | ✉ info@andisil.com

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ANDISIL®



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### CROSSLINKERS: PENDANT SERIES\*

PRODUCT	SiH CONTENT	VISCOSITY
ANDISIL® XL-1B	0.95 mmoles / gm	100 cSt
ANDISIL® XL-10	7.55 mmoles / gm	45 cSt
ANDISIL® XL-11	4.35 mmoles / gm	45 cSt
ANDISIL® XL-12	1.10 mmoles / gm	500 cSt
ANDISIL® XL-13	3.80 mmoles / gm	100 cSt
ANDISIL® XL-15	3.15 mmoles / gm	40 cSt
ANDISIL® XL-17	1.95 mmoles / gm	50 cSt

### CROSSLINKERS: HYBRID SERIES\*

PRODUCT	SiH CONTENT	VISCOSITY
ANDISIL® XL-1340	3.00 mmoles / gm	50 cSt
ANDISIL® XL-1341	4.20 mmoles / gm	40 cSt
ANDISIL® XL-1342	8.60 mmoles / gm	50 cSt

### CROSSLINKERS: CHAIN EXTENDERS\*

PRODUCT	SiH CONTENT	VISCOSITY
ANDISIL® CE-4	2.90 mmoles / gm	4 cSt
ANDISIL® CE-13	1.60 mmoles / gm	14 cSt
ANDISIL® CE-500	0.16 mmoles / gm	500 cSt

### VINYL RESINS - RI@25 °C=1.406\*

PRODUCT	VISCOSITY	VINYL CONTENT
ANDISIL® VQM 0.6	600 cps	0.3 mmole/gm
ANDISIL® VQM 1	1,200 cps	0.24 mmoles / gm
ANDISIL® VQM 6	6,000 cps	0.22 mmoles / gm
ANDISIL® VQM 60	60,000 cps	0.20 mmoles / gm
ANDISIL® VQM 100	100,000 cps	0.52 mmoles / gm
ANDISIL® VQM 1040	15,000 cps	0.40 mmoles / gm
ANDISIL® VQM 2050	500 cps	1.1 mmoles / gm

**XL** The crosslinkers in the **ANDISIL® pendant series** have random pendant silicon-hydride functionality and are trimethylsiloxy-terminated.

**XL** The crosslinkers in the **ANDISIL® hybrid series** have both pendant and terminal silicon-hydride functionality which results in improved crosslink density.

**CE** **ANDISIL®** chain extenders have terminal silicon-hydride functionality. This is beneficial in aiding the formulator by building molecular weight of the linear vinyl fluids in-situ during the curing reaction.

**VQM** **ANDISIL®** vinyl resins are comprised of vinyl-functional silicone polymers and vinyl-functional QM-resins. The product group is beneficial in formulating filler free, transparent systems that require good mechanical properties and also will improve the mechanical properties of filled formulations.

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