



CSD037-HA

Description: CSD037-HA is a non-cerium based dispersion used to increase the heat stability of most silicone HCRs.

Key Features:

- ◆ Easy to pigment.
- ◆ Ease of compounding.
- ◆ Increases heat resistance of most silicone HCR's at 220°C or above.

How To Use:

CSD037-HA should be added on a two-roll mill prior to curing. The dispersion will impart the best heat resistance when used at 1.0 – 2.0 phr. This concentration can be varied depending on the end use of the silicone rubber.

Storage and Shelf Life:

When stored at or below 32C (90F), this material has a shelf-life of 12 months from the date of manufacture.

Property:

Typical Value:

- | | |
|--------------------|---------------|
| ◆ Classification | HA - Heat Age |
| ◆ Specific Gravity | 1.35+/- .03 |
| ◆ Color | Off-White/Tan |
| ◆ Polymer Type | VMQ |

Food-Grade Products:

Some of the components of CSD037-HA are not listed in 21 CFR 177.2600. This FDA regulation deals with rubber articles intended for repeated use in contact with food. CRI-SIL Silicone Technologies does not recommend this modifier for such applications.

Packaging:

CSD037-HA is supplied in 50lb boxes, net weight.

BENEFITS

- ✦ Can be used with different catalyst systems to provide improved characteristics for both molded and extruded products.
- ✦ Easy storage
- ✦ Fast and easy cleanup
- ✦ Easily incorporated into existing formulations.

TURNKEY SOLUTIONS

CRI-SIL additives and dispersions are intended to quickly and easily modify your compounds to achieve your desired affect. We offer many products that can be added on a two-roll mill with very little preparation.

CRI-SIL SERVICES

- ✦ Custom silicone compounding
- ✦ Processing Assistance
- ✦ Fast Quoting
- ✦ Free Samples

Table 1: Heat Age Properties of CRI-SIL Silicone Technologies CSB260 base with CSD037-HA*

	<u>CONTROL COMPOUND</u>	<u>Add CSD037-HA</u>
<u>Basic Physicals</u>		
Hardness, pts	60	62
Tensile, psi	1176	1114
Elongation, %	351	323
Comp set, 22hrs@350°F	8.87	12.8
<u>Heat Aged 70hr@437°F</u>		
Hardness, pts	76	67
Tensile, psi	761	1119
Elongation, %	73	274
<u>Heat Aged 24hr@600°F</u>		
Hardness, pts	N/A**	75
Tensile, psi	N/A**	641
Elongation, %	N/A**	111

*Properties obtained on a 2 mm thick (0.08 inches) slab: DHBP catalyzed formulation press cured 10 minutes @ 175°C (350°F). Compression set properties obtained on a 12.7 mm thick (0.5 inches) x 25.4 mm diameter (1 inch) button, DHBP Catalyzed formulation press cured 35 minutes @ 175°C (350°F).

**Tensile bars were too brittle and broke apart when removed from oven.

Limited Warranty Information

Please Read Carefully

DISPOSAL

CRI-SIL CSD037-HA should be disposed of in accordance with local and federal regulations.

WRITING SPECIFICATIONS

The values listed here are considered "Typical Values" and therefore not intended for use in preparing specifications. Please contact CRI-SIL Silicone Technologies prior to writing specifications on these products.

MORE INFORMATION

For more information on any of our products or services please visit us on the Web at:
www.cri-sil.com

The information contained herein is offered in good faith and is believed to be accurate. However, because end-use manufacturing conditions vary, this information should not be used in substitution of actual product testing to ensure full satisfaction for the intended end use.

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