

Rigidizer

Rigidizer Material Overview

Refractory Specialties Inc's rigidizer products are silica and alumina based solutions that impart strength, increase density, and provide dust abatement on our finished **Gemcolite®** products. They are inorganic, will not generate smoke when fired, and come in a variety of chemistries and strengths. Rigidizer can be applied throughout the thickness of a board or shape, making a very strong, very dense insulation part. It can also be surface rigidized, so only the exterior is treated, useful for insulation parts that will see physical contact with substrates, or where dust is an issue. **Gemcolite®** boards can also be rigidized with our special F-Process, which imparts strength to the center of boards and shapes. Rigidizer can be applied at RSI to parts, or is available for purchase.

RIG-115 is Refractory Specialties' standard silica based rigidizer. It can be used on all **Gemcolite®** products, and can be used in applications up to 2100° F.

RIG-130 Is Refractory Specialties' High-Strength rigidizer, used when density and strength need to be maximized. RIG-130 can be used in applications up to 2100° F.

RIG-NNA is a low sodium variant of our standard rigidizer, and is used in applications where trace amounts of sodium cannot be tolerated. RIG-NNA can be used in applications up to 2100° F.

RIG-A115 is Refractory Specialties' alumina based rigidizing system, used where silica cannot be tolerated, or where a higher use temperature is needed. RIG-A115 is useable in applications up to 2900° F.

Please note all rigidizers must be kept from freezing to retain full utility.

Rigidizer Technical Information

<u>Property</u>	<u>RIG-115</u>	<u>RIG-130</u>	<u>RIG-NNA</u>	<u>RIG-A115</u>
Density	12 lb/gal	13 lb/gal	12 lb/gal	15 lb/gal
Maximum Continuous Use Temperature	2300° F	2300° F	2300° F	2900° F
Typical Chemical Analysis (After Use)				
SiO ₂ (Weight Percent)	98 %	98 %	98 %	0 %
Al ₂ O ₃ (Weight Percent)	0 %	0 %	0 %	98 %
Other (Weight Percent)	2 %	2 %	2 %	2 %

Other Information

The information given herein is based on data believed to be reliable; however, Refractory Specialties, Incorporated makes no expressed or implied warranties as to its accuracy and assumes no liability arising out of its use by others. This information does not constitute a license to use or infringe any patents. Further, the data is found to be typical and should not be construed as product specification/s.

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