

# M47-AFS 105

## Typical Material Properties\*

Alumina (Al <sub>2</sub> O <sub>3</sub> )	46.80% (46.0% min.)
Silica (SiO <sub>2</sub> )	50.00%
Titania (TiO <sub>2</sub> )	1.89%
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.95% (1.0% max.)
Calcium Oxide (CaO)	0.04%
Magnesium Oxide (MgO)	0.08%
Sodium Oxide (Na <sub>2</sub> O)	0.09%
Potassium Oxide (K <sub>2</sub> O)	0.09%
Phosphorous Pentoxide (P <sub>2</sub> O <sub>5</sub> )	0.09%
Specific Gravity (gm/ml)	2.62 (2.60 min)
PCE Temperature Value	3245 °F (1785 °C)

\*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

## Grain Particle Size Specifications

USS Sieve	30 600 µm	40 425 µm	50 300 µm	70 212 µm	100 150 µm	140 106 µm	200 75 µm	270 53 µm	PAN**
	-	-	0	0-16	36-66	13-42	3-16	0-6	2 max

\*\*PAN designates the percentage of material passing the last reported screen for each size.

## Safety

**North America:** Danger. Contains crystalline silica. May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure by inhalation. See SDS for more information.

**EU:** Danger. Contains respirable crystalline silica. Causes damage to lungs through prolonged or repeated exposure. See SDS for more information.

*As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user. All potential liability related to the sale and use of this product is limited to the cost of the particular goods sold in their respective transactions.*



## RANSOM & RANDOLPH

3535 Briarfield Boulevard | Maumee, OH 43537 USA  
800.800.7496 | 419.865.9497 | 419.865.9997 (FAX)  
www.ransom-randolph.com



Made in the USA

Issue Date: March 20, 2024

Ransom & Randolph GmbH  
Leipziger Straße 40 | 04571 Rötha Germany  
+49 342 06373999

Investing with Innovation™