

RUTILE PRODUCTS



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Rutile is used in the compounding of coatings for Mild and Alloy steel welding rods. It provides arc stabilizing flux and slag forming material. Balanced additions of Milled Rutile (RUFLUX® 61) help to control drying cracks in coatings. It is also used as a specking additive in ceramic glaze formulations. Ceramic Rutile is used as a natural stain in glazes.

SOLUBILITY

- Insoluble in water and alkali
- Slightly soluble in dilute mineral acid
- Soluble in hydrofluoric acid concentrated sulfuric acid

TYPICAL PROPERTIES

Formula	TiO ₂	Component	Typical Range
Molecular Weight	79.9	TiO ₂	94.0-96.0
Crystal Structure	Tetragonal	ZrO ₂	0.6-1.0
Specific Gravity (gm/cc)	4.2	SiO ₂	0.5-1.5
Melting Point	3250° F	Al ₂ O ₃	0.2-0.65
		Fe ₂ O ₃	0.5-1.0
		CrO ₃	0.1-0.3
		V ₂ O ₅	0.4-0.9

	Milled Rutile Ruflex 61	Ceramic Rutile
Product Number	1014113	1014084
Bulk Density (Lb./ft ³)	120	100-120
Color	Grey Brown	Dark Grey
+200 Mesh	<0.25	-
-200 +325	0 - 4	-
+325	-	<0.6
Ignition Loss	0.0 - 0.5	0.0 - 0.4
Fisher Number	2.2 - 4.4	2.0 - 3.3

NOTE: The statements made herein are based on our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made and the products discussed are sold without warranty, expressed or implied, and upon the condition that purchasers shall make their own tests to determine the suitability of such products for their particular uses. Likewise statements made concerning the possible uses of these products are not intended as recommendations to use these products in infringement of any patent.