

MILBRO REFRACTORIES, INC.

ULTRA-RED F[®]

Mullite based, finer grain, chemically bonded plastic refractory. ULTRA-RED F[®] has high plasticity which makes it excellent for patching and maintaining monolithic linings.

Service Temperature	3150° F
Melting Point	3250° F
Material Required for Estimating	168 lbs./ft³

TYPICAL CHEMICAL ANALYSIS

Al ₂ O ₃	73.9
SiO ₂	20.2
Fe ₂ O ₃	0.9
TiO ₂	1.6
MgO	0.1
CaO	0.1
P ₂ O ₅	3.0

TYPICAL PHYSICAL PROPERTIES

Temperature °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
250° F	950	1600	0.7 S
1500° F	1050	2250	0.2 S
2000° F	1400	3700	0.2 S
2500° F	2250	5800	0.2 E
3000° F	3550	13200	0.5 S

All data shown is based on average of standard ASTM procedures, unless otherwise indicated. Results are subject to reasonable deviation and should not be used for specification purposes.