



Simulant Name: LHS-1 Lunar Highlands Simulant

Simulant Type: General Purpose

Reference Material: Generic Highlands Soil

Publication: N/A

Bulk Density: 1.30 g/cm³

Particle Size Range: 0-1 mm



Mineralogy

Weight percent, as mixed.

Plagioclase	74.4
Basaltic glass	24.2
Basalt	0.5
Ilmenite	0.4
Pyroxene	0.3
Olivine	0.2

Reflectance Spectrum

Data coming soon.

Bulk Chemistry

Weight percent, as measured by XRF.

SiO ₂	44.18	MnO	0.05
TiO ₂	0.79	CaO	11.62
Al ₂ O ₃	26.24	Na ₂ O	2.30
Cr ₂ O ₃	0.02	K ₂ O	0.46
FeO _T	3.04	SO ₃	0.10
MgO	11.22	Total	100

Particle Size Distribution

Data coming soon.