

	<u>ALH 77005</u>	<u>Chassigny</u>	<u>Nakhla</u>	<u>Máaz</u>	<u>Séítah</u>
<i>Major oxide (w.t. %)</i>					
MgO	28.2	31.8	12.1	2.28	19.24
Al₂O₃	2.87	0.72	1.68	8.8	2.25
SiO₂	42.4	37.4	48.6	48.81	40.42
CaO	3.16	0.66	14.7	7.85	3.15
TiO₂	0.39	0.08	0.34	2.44	0.39
Na₂O(ox)	0.47	0.12	0.46	3.97	1.32
K₂O(ox)	0.03	0.036	0.13	1.11	0.15
Cr₂O₃	0.98	0.77	0.26	0.01	0.3
MnO	0.45	0.53	0.49	0.48	0.7
FeO(ox)	20.1	27.3	20.6	21.69	30.61
ZnO	0.4	0.071	0.13	2.57	0.42
S	0.051	0.026	0.026	0	0
H₂O	0	0.07	0.057	0	0
Geochemical classification	Ultramafic	Ultramafic	Mafic	Mafic	Ultramafic
Prominent Mineral constituents	<i>Olivine, pyroxene, Maskelynite, opaques</i>	<i>Olivine, pyroxene, plagioclase, chromite, ilmenite</i>	<i>Pyroxene, Olivine, Mesostasis</i>	<i>Augite, plagioclase, ilmenite, ferrosilite, and unidentified iron oxide solids</i>	<i>Olivine, augite, with minor amounts of feldspars, phosphates, Cr- and Ti-bearing Fe oxide solids</i>
References	<i>Lodders, 1998</i>	<i>Lodders, 1998</i>	<i>Lodders, 1998</i>	<i>Farley et al., 2022</i>	<i>Farley et al., 2022</i>

Supplementary Table 2. Meteorite and data for Máaz and Séítah sites were input as average whole-rock compositions, ALH77005 (Iherzolitic shergottite, Lodders (1998)), Chassigny (type chassignite, Lodders (1998)), Nakhla (type nakhlite, Lodders (1998)), Perseverance sites, Máaz and Séítah (Farley et al. 2022).