

THE VOYAGE OF H.M.S. CHALLENGER.

77. PUMICE.—Station 246.

Lat. 36° 10' N., long. 178° 0' E., 2050 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	5.90
Portion soluble in Hydrochloric Acid = 32.60	Copper,	small trace
	Alumina,	2.50
	Ferric oxide,	7.30
	Calcium phosphate,	0.20
	Manganese oxide,	4.56
	Nickel,	small trace
	Cobalt,	...
	Calcium sulphate,	0.60
	Calcium carbonate,	1.94
	Magnesium carbonate,	2.00
Portion insoluble in Hydrochloric Acid = 61.50	Silica,	13.50
	Alumina,	6.00
	Ferric oxide,	5.20
	Lime,	1.70
	Magnesia,	0.54
	Silica,	48.06
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		100.00

NOTE.—Pieces resembling pumice in a disintegrating state; as received, that is to say dry, the material floated in water for a time but afterwards sank.

78. PUMICE.—Station 286.

Lat. 33° 29' S., long. 133° 22' W., 2335 fathoms (Brazier).

	Loss on ignition after drying at 230° Fahr.,	4.50
Portion soluble in Hydrochloric Acid = 56.27	Copper,	trace
	Alumina,	6.00
	Ferric oxide,	11.00
	Calcium sulphate,	mere trace
	Manganese oxide,	5.70
	Nickel,	trace
	Cobalt,	trace
	Calcium sulphate,	0.25
	Calcium carbonate,	1.90
	Magnesium carbonate,	3.02
Portion insoluble in Hydrochloric Acid = 39.23	Silica,	28.40
	Alumina,	3.40
	Ferric oxide,	5.25
	Lime,	1.35
	Magnesia,	0.50
	Silica,	28.73
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	100.00	

NOTE.—Four small pieces of matter (three soft and one hard) resembling pumice.

79. PUMICE.—Station 184.

Lat. 12° 8' S., long. 145° 10' E., 1400 fathoms (Renard).

I. 1.5321 grms. of substance dried at 110° C., fused with the carbonates of soda and potash, gave 0.0260 gm. of water, 0.7747 gm. of silica, 0.0122 gm. of titanio acid, 0.1578 gm. of alumina, 0.0757 gm. of peroxide of iron, 0.0021 gm. of protoxide of manganese, 0.1422 gm. of lime, 0.3490 gm. of pyrophosphate of magnesia = 0.1420 gm. of magnesia.