

green) and darker colored (yellow-brown, red-brown and violet-brown) glass fragments can be distinguished. Contrary to the regular bodies, the light colored fragments are about as frequent as the darker colored. Many of the fragments contain vesicles and mineral grains, sometimes partially fused. Flow textures revealed by schlieren of different colors and refractive index are frequent. Minute iron spherules are rather frequent, as are sometimes also opaque cubic crystals. Some fragments appear clear without any inhomogeneities. Devitrified glass fragments occur with dendritic and skeletal crystals.

Table 3. Chemical composition of colorless and green glasses
(microprobe analysis, wt. %)

	Sample No.	SiO ₂	TiO ₂	Al ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	Total	<i>n_D</i>	
Light green sphere	10084-106 M38	41.80	0.45	29.03	4.44	0.04	6.59	15.59	0.23	0.03	98.20	1.6027	
Green sphere	10084-106 M76	42.88	0.28	26.12	8.05	0.09	8.03	13.10	1.21	0.10	99.86	—	
Green sphere	10085-26 M37	43.04	0.33	23.77	8.63	0.07	8.66	13.08	0.23	0.03	97.84	1.6039	
Colorless fragment	10084-106 M63-4	43.75	0.41	25.36	6.33	n.d.	7.94	14.92	0.13	0.07	98.91	—	
Colorless fragment	10084-106 M63-5	44.01	0.22	27.74	4.69	n.d.	6.16	16.54	0.03	0.02	99.41	—	
Colorless fragment	10084-106 M63-2	44.27	0.38	25.56	6.20	n.d.	8.34	14.81	0.09	0.05	99.70	—	
Colorless fragment	10084-106 M63-6	44.39	0.41	25.85	6.13	n.d.	7.92	14.95	0.05	0.04	99.74	—	
Colorless fragment	10084-106 M71	44.67	0.20	27.84	5.07	0.06	7.12	14.18	0.27	0.02	99.43	—	
Colorless fragment	10084-106 M67	44.98	0.64	24.91	6.69	0.10	9.03	13.55	0.39	0.11	100.40	1.6054	
Colorless fragment	10084-106 M73	44.84	0.37	26.96	5.44	0.07	7.81	14.06	0.40	0.07	100.02	—	
Colorless-light green fragment	10084-106 M70	45.05	0.41	27.02	5.89	0.07	7.33	14.57	0.28	0.07	100.69	—	
Colorless fragment	10084-106 M63-3	45.12	0.20	26.95	4.69	n.d.	7.86	15.61	0.16	0.02	100.61	—	
Green fragment	10065-28	—	46.06	2.33	15.66	11.29	0.11	8.18	9.80	1.35	0.47	95.25	—
Green fragment	10065-28	—	46.24	2.05	16.44	10.56	0.12	8.13	9.98	0.97	0.50	94.99	—
Greenish ellipsoid	10065-28	—	47.39	0.87	23.82	7.35	0.07	8.31	13.14	0.37	0.09	101.41	—
Colorless fragment	10085-26 M50	48.08	0.13	21.38	4.22	n.d.	9.81	15.46	0.49	0.09	99.66	1.5890	
Green fragment	10084-106 M68	49.79	2.36	16.02	11.17	0.12	7.27	9.98	0.75	0.33	97.79	1.6012	
Average		45.08	0.71	24.14	6.87	0.08	7.91	13.72	0.43	0.12	99.05		
Anorthositic gabbro*		46.0	0.3	27.3	6.2	0.1	7.9	14.1	0.3	trace	102.5		
Anorthosite*		45.4	trace	33.8	2.8	0.1	1.7	17.5	0.4	trace	101.7		

n.d. = not determined.

* Wood *et al.* (1970).

Table 4. Chemical composition of yellow-brown, red-brown and violet-brown glasses
(Microprobe analysis, wt. %)

	Sample	No.	SiO ₂	TiO ₂	Al ₂ O ₃	FeO	MnO	MgO	CaO	Na ₂ O	K ₂ O	Total	<i>n_D</i>
Yellow-brown ellipsoid	10065-28	—	33.19	8.93	15.97	15.37	0.16	8.33	13.21	0.00	0.00	95.16	—
Red-brown sphere	10065-28	—	34.56	9.73	5.36	24.21	0.22	12.96	7.03	0.37	0.05	94.49	—
Red-brown sphere	10065-28	—	34.88	9.83	5.28	23.99	0.18	13.12	7.06	0.40	0.05	94.79	—
Violet-brown sphere	10085-25	M28-A	35.98	10.19	5.57	24.47	0.22	12.58	7.58	0.44	0.03	97.06	—
Yellow-brown sphere	10065-28	—	36.22	8.21	12.86	17.51	0.16	8.40	11.47	0.21	0.05	95.09	—
Red-brown fragment	10065-28	—	38.16	10.20	9.62	19.12	0.16	6.95	10.38	0.71	0.14	95.44	—
Yellow-brown fragment	10084-106	M69	38.87	9.89	9.79	18.33	0.22	8.76	10.70	0.31	0.05	96.92	1.7234
Yellow-brown fragment	10065-28	—	39.20	6.74	12.47	17.26	0.15	8.97	10.61	0.71	0.07	96.18	—
Violet-brown fragment	10085-25	M28-C	39.04	9.70	18.89	0.17	0.17	6.99	10.67	0.26	0.49	95.98	—
Yellow fragment	10085-25	M74	39.41	9.63	10.83	17.73	0.21	7.56	11.43	0.61	0.15	97.56	—
Yellow-brown fragment	10065-28	—	40.02	6.00	13.29	16.06	0.15	8.44	10.80	0.68	0.13	95.57	—
Violet-brown fragment	10085-25	M28-B	40.09	8.19	10.91	18.46	0.18	8.07	10.95	0.69	0.16	97.70	—
Yellow fragment	10085-26	M56-A	40.25	7.06	13.26	15.76	0.12	8.06	10.67	0.12	0.04	95.34	—
Yellow fragment	10085-25	M75	40.54	8.46	12.10	15.76	0.22	7.70	11.65	0.64	0.15	97.22	—
Yellow-brown fragment	10065-28	—	40.90	6.56	12.88	15.52	0.15	8.74	10.65	0.60	0.14	96.14	—
Red-brown fragment	10084-106	M82	41.20	6.85	12.59	15.35	0.14	8.86	10.70	0.42	0.14	96.25	—
Yellow fragment	10084-106	M66	42.87	4.94	11.84	10.85	0.23	16.22	9.42	0.20	0.07	96.64	1.6528
Average			38.55	8.30	10.84	17.92	0.18	9.45	10.29	0.43	0.11	96.09	—
Apollo 11 basaltic rocks average*			40.69	10.78	9.49	19.16	0.24	7.55	10.97	0.46	0.18		

* Average of analyses of crystalline Apollo 11 rocks by AGRELL *et al.* (1970), FRONDEL *et al.* (1970), ENGEL and ENGEL (1970), MAXWELL *et al.* (1970), PECK and SMITH (1970), WIHK and OJANPERÄ (1970).