

**Table 2. Modal percentages of four sub-sets of pyroxenes in the finest size fractions of Apollo mare soils. Maturity as  $I_s/FeO$  of the <250  $\mu m$  fraction [Morris, 1978] is given directly after the soil number, a value commonly used as the reference maturity for an entire soil.**

	<b>10084-84</b>			<b>12030-14</b>			<b>12001-56</b>		
	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$
<b>Orthopyroxene</b>	0.34	0.61	0.42	3.85	2.86	2.20	0.82	2.24	2.07
<b>Pigeonite</b>	3.94	3.23	1.81	15.20	10.18	7.07	8.77	7.36	6.06
<b>Mg-Clinopyroxene</b>	10.35	7.81	5.96	12.14	6.59	5.18	7.52	7.64	4.79
<b>Fe-Clinopyroxene</b>	1.38	0.57	0.25	2.59	1.75	0.89	1.77	0.70	0.58
<b>Total Pyroxene</b>	<b>16.01</b>	<b>12.22</b>	<b>8.44</b>	<b>33.78</b>	<b>21.38</b>	<b>15.34</b>	<b>19.88</b>	<b>17.94</b>	<b>13.50</b>

  

	<b>15071-52</b>			<b>15041-94</b>			<b>71061-14</b>		
	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$
<b>Orthopyroxene</b>	3.22	2.13	2.11	3.77	2.35	0.79	1.15	1.32	0.95
<b>Pigeonite</b>	10.27	7.64	5.20	10.48	8.14	2.49	6.87	4.07	2.72
<b>Mg-Clinopyroxene</b>	6.98	5.56	3.21	6.75	5.12	1.62	10.29	5.97	4.11
<b>Fe-Clinopyroxene</b>	1.60	1.38	0.40	1.49	1.37	0.42	2.18	1.12	0.49
<b>Total Pyroxene</b>	<b>22.07</b>	<b>16.71</b>	<b>10.92</b>	<b>22.48</b>	<b>16.98</b>	<b>5.32</b>	<b>20.49</b>	<b>12.48</b>	<b>8.27</b>

  

	<b>71051-35</b>			<b>70181-47</b>			<b>79221-81</b>		
	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$	20-45 $\mu m$	10-20 $\mu m$	<10 $\mu m$
<b>Orthopyroxene</b>	1.44	1.47	1.00	1.51	1.20	0.59	1.47	1.64	0.60
<b>Pigeonite</b>	6.31	4.61	2.85	4.70	2.57	1.76	3.72	2.86	1.42
<b>Mg-Clinopyroxene</b>	11.1	6.34	4.10	8.15	3.74	1.98	4.85	3.24	1.00
<b>Fe-Clinopyroxene</b>	2.35	1.25	0.76	1.37	0.97	0.31	3.14	1.82	0.60
<b>Total Pyroxene</b>	<b>21.2</b>	<b>13.67</b>	<b>8.71</b>	<b>15.73</b>	<b>8.48</b>	<b>4.64</b>	<b>13.18</b>	<b>9.56</b>	<b>3.62</b>