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X-RAY POWDER DATA FOR AMINOFFITE

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When aminoffite was first described by Hurlbut (1937), single-crystal x-ray data were included, but not powder data. The writer borrowed one of the type specimens (Harvard Museum No. 106917) and removed a few small crystals for a powder pattern. The measured data were indexed

TABLE 1. X-RAY POWDER DATA FOR AMINOFFITE

(Harvard Museum No. 106917)

$\text{CuK}\alpha$ Radiation

Camera Diameter 57.3 mm

R.O.M. Film No. 1770

hkl	$d_{\text{calc.}}(\text{Å})$	$d_{\text{obs.}}(\text{Å})$	$I_{\text{obs.}}$	hkl	$d_{\text{calc.}}(\text{Å})$	$d_{\text{obs.}}(\text{Å})$	$I_{\text{obs.}}$
110	9.758			213	2.887		
101	7.990			402	2.820	2.840	9
200	6.900	6.97	7	332	2.710	2.730	$\frac{1}{2}$
211	5.222			510	2.707		
002	4.900			303	2.663		
220	4.879	4.90	4 diff	431			
112	4.379			501	2.657		
310	4.364	4.40	7	422	2.611	2.614	10
301	4.164			323	2.484		
202	3.995	4.02	8	521	2.479		
321	3.564			004	2.450	2.455	2
222	3.456			440	2.440		
400	3.450	3.48	7	114	2.376	2.380	6
312	3.258			512	2.369		
330	3.253	3.30	$\frac{1}{2}$	530	2.367		
103	3.179			413	2.338		
411	3.167	3.11	7	204	2.309	2.315	1
420	3.036			600	2.300		
		2.96*	$\frac{1}{2}$	611	2.210		

* Magnetite impurity.

TABLE 1—(Continued)

hkl	d _{calc.} (Å)	d _{obs.} (Å)	I _{obs.}	hkl	d _{calc.} (Å)	d _{obs.} (Å)	I _{obs.}
224	2.190			660	1.626		
442	2.184			116	1.611		
620	2.182			750	1.604		
314	2.136	2.141	8	435	1.598		
532	2.131			505	1.598		
433	2.108			831	1.594		
503	2.108			206	1.590	1.590	7
541	2.105			822	1.584		
602	2.082	2.094	1	525	1.557		
523	2.016			653	1.554		
631	2.013			226	1.549		
404	1.998	2.002	6	662	1.544		
622	1.993			840	1.543		
334	1.957					1.532	1
550	1.951					1.480	$\frac{1}{2}$
710	1.951					1.447	1
105	1.940					1.404	2
701	1.933					1.388	2
424	1.919	1.926	6			1.359	1
640	1.914					1.334	5
215	1.868					1.288	1
613	1.863					1.244	1
721	1.861					1.230	$\frac{1}{2}$
514	1.816	1.821	$\frac{1}{2}$			1.208	$\frac{1}{2}$
552	1.813					1.191	3
712	1.813					1.174	3
730	1.812					1.157	1
305	1.803					1.141	1
543	1.799					1.112	4
642	1.783	1.791	1			1.092	2
325	1.744					1.072	$\frac{1}{2}$
633	1.741					1.059	1
651	1.739					1.036	1 brd
444	1.729	1.734	5			1.014	1
800	1.725					1.002	$\frac{1}{2}$
534	1.705					.992	1
732	1.700					.981	1
415	1.691					.961	$\frac{1}{2}$
703	1.688					.955	$\frac{1}{2}$
741	1.686					.935	2
811	1.686					.912	2
604	1.677	1.681	7			.892	1 brd
820	1.674					.876	1 brd
723	1.640					.868	$\frac{1}{2}$
006	1.633	1.634	5			.855	1
624	1.630					.849	2
802	1.627						

using Hurlbut's single-crystal data: space group $I 4/mmm$, $a=13.8 \text{ \AA}$, and $c=9.8 \text{ \AA}$. The results are shown in Table 1. The weak line at $d=2.96$ is probably due to a small amount of magnetite.

The writer is indebted to Professor Hurlbut for providing the aminofite specimen.

REFERENCE

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ERRATA

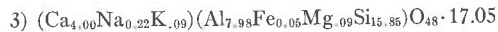
A corrected calculation of laumontite (Leonhardite and Laumontite in Diabase from Dillsburg, Pennsylvania, Lapham, 1963, *Am. Mineral.* **48**, 683-689) based on 60 cations for 64 oxygens should read:



H₂O If calculated on the basis of 28 total cations, the formula is:



H₂O If calculated on the basis of 48 oxygens with no charge imbalance, the formula is:

H₂O

Formula 1) treated H⁺ as a cation site and is probably incorrect.

Formula 2) implies a charge imbalance and tetrahedral deficiency.

Formula 3) based on charge balance is preferred. The author is grateful to Douglas Coombs for correcting the original calculation to formula 3).