

Table 2 (cont.)

R (1)	N (2)	(3)	M (4)	(5)	O (6)	TI (7)	TII (8)	CI (9)	CII (10)
80	35555	---	---	---	---	34444	34444	15555	16666
320	35555	---	0	0	0	0	0	0	0
480	35566	---	---	---	---	34466	34466	14455	14466
320	35666	---	0	0	0	0	0	0	0
80	36666	---	---	---	---	---	---	14444	14444
32	44444	---	0	0	0	0	0	0	0
160	44445	0	---	0	0	0	0	0	0
160	44446	0	0	---	0	0	---	0	0
320	44455	---	0	0	0	0	0	0	0
640	44456	---	---	---	---	---	---	---	---
320	44466	---	0	0	0	0	0	0	0
320	44555	0	---	0	0	0	0	0	0
960	44555	0	0	---	0	0	0	0	0
960	44566	0	---	0	0	0	0	0	0
320	44666	0	---	0	0	0	---	0	0
160	45555	---	0	0	0	0	0	0	0
640	45556	---	---	---	---	44456	44456	44456	44456
960	45566	---	0	0	0	0	0	0	0
640	45666	---	---	---	---	---	---	44456	44456
160	46666	---	0	0	0	0	0	0	0
32	55555	0	---	0	0	0	0	0	0
160	55556	0	---	0	0	0	-44446	0	0
320	55566	0	---	0	0	0	0	0	0
320	55666	0	---	0	0	0	-44666	0	0
160	56666	0	---	0	0	0	0	0	0
32	66666	0	0	---	0	0	0	0	0

Table 3. Sixth-order elastic constants (SOEC)

R	N Tri- clinic	M Mono- clinic	O Ortho- rhombic	TI Tetragonal	TII	CI	CII
	1 I	2 2/m m	222 mmm	4mm 32m 4/mmm	4 3 4/m	43m 432 m3m	23 2 m3
	m=x ₂ x ₃ C ₂ =x ₁	m=x ₃ x ₁ C ₂ =x ₂	m=x ₁ x ₂ C ₂ =x ₃				
(1)	462 (2)	246 (3)	246 (4)	138 (6)	72 (7)	124 (8)	48 (10)
1	111111	---	---	---	---	---	---
6	111112	---	---	---	---	---	---
6	111113	---	---	---	---	---	---
12	111114	---	0	0	0	111112	0
12	111115	0	---	0	0	0	0
12	111116	0	0	0	0	0	0
15	111122	---	---	---	---	---	---
30	111123	---	---	---	---	---	---
60	111124	---	0	0	0	0	0
60	111125	0	---	0	0	0	0
60	111126	0	0	0	0	0	0
15	111133	---	---	---	---	---	---
60	111134	---	0	0	0	111122	0
60	111135	0	---	0	0	0	0
60	111136	0	0	0	0	0	0
60	111144	---	---	---	---	---	---
120	111145	0	0	0	0	0	0
120	111146	0	---	0	0	0	0
60	111155	---	---	---	---	---	---
120	111156	---	0	0	0	0	0
60	111166	---	---	---	---	---	---
20	111222	---	---	---	---	111155	0
60	111223	---	---	---	---	---	---
120	111224	0	0	0	0	0	0
120	111225	0	---	0	0	0	0
120	111226	0	0	0	0	0	0
60	111233	---	---	---	---	111223	111223
240	111234	---	0	0	0	0	0
240	111235	0	---	0	0	0	0
240	111236	0	0	0	0	0	0
240	111244	---	---	---	---	---	---
480	111245	0	0	0	0	0	0
480	111246	0	---	0	0	0	0
240	111255	---	---	---	---	---	---
480	111256	---	0	0	0	0	0
240	111266	---	---	---	---	---	---
20	111333	---	---	---	---	111222	111222
120	111334	---	0	0	0	0	0
120	111335	0	---	0	0	0	0
120	111336	0	0	0	0	0	0
240	111344	---	---	---	---	111244	0
480	111345	0	0	0	0	0	0
480	111346	0	---	0	0	0	0
240	111355	---	---	---	---	111266	0
480	111356	---	0	0	0	0	0
240	111366	---	---	---	---	111255	---
160	111444	---	0	0	0	0	0
480	111445	0	---	0	0	0	0
480	111446	0	0	0	0	0	0
480	111455	---	0	0	0	0	0
960	111456	---	---	---	---	---	---
480	111466	---	0	0	0	0	0
160	111555	0	---	0	0	0	0
480	111556	0	0	0	0	0	0
480	111566	0	---	0	0	0	0
160	111666	0	0	0	0	0	0
15	112222	---	---	---	---	---	---
60	112223	---	---	---	111122	111122	111122
120	112224	---	0	0	111223	111223	111223

Table 3 (cont.)

R (1)	N (2)	(3)	M (4)	(5)	O (6)	TI (7)	TI (8)	CI (9)	CII (10)
120	112225	0	---	0	0	0	0	0	0
120	112226	0	---	0	0	0	-111226	0	0
90	112233	---	---	---	---	---	---	---	---
360	112234	---	0	0	0	0	0	0	0
360	112235	0	---	0	0	0	0	0	0
360	112236	0	0	---	0	0	0	0	0
360	112244	---	---	---	---	---	---	---	---
720	112245	0	0	---	0	0	0	0	0
720	112246	0	---	0	0	0	0	0	0
360	112255	---	---	---	---	112244	112244	112244	113344
720	112256	---	0	0	0	0	0	0	0
360	112266	---	---	---	---	---	---	111223	111223
60	112333	---	---	---	---	---	---	0	0
360	112334	---	0	0	0	0	0	0	0
360	112335	0	---	0	0	0	0	0	0
360	112336	0	0	---	0	0	0	0	0
720	112344	---	---	---	---	---	---	---	---
1440	112345	0	0	---	0	0	0	0	0
1440	112346	0	---	0	0	0	0	0	0
720	112355	---	---	---	---	---	---	---	---
1440	112356	---	0	0	0	0	0	0	0
720	112366	---	---	---	---	---	---	112355	---
480	112444	---	0	0	0	0	0	0	0
1440	112445	0	---	0	0	0	0	0	0
1440	112446	0	0	---	0	0	0	0	0
1440	112455	---	0	0	0	0	0	0	0
2880	112456	---	---	---	---	---	---	---	---
1440	112466	---	0	0	0	0	0	0	0
480	112555	0	---	0	0	0	0	0	0
1440	112556	0	---	0	0	0	0	0	0
1440	112566	0	---	0	0	0	0	0	0
480	112666	0	0	---	0	0	0	0	0
15	113333	---	---	---	---	---	---	111122	111122
120	113334	---	0	0	0	0	0	0	0
120	113335	0	---	0	0	0	0	0	0
120	113336	0	0	---	0	0	0	0	0
360	113344	---	---	---	---	---	---	112244	112255
720	113345	0	0	---	0	0	0	0	0
720	113346	0	---	0	0	0	0	0	0
360	113355	---	---	---	---	---	---	112266	112266
720	113356	---	0	0	0	0	0	0	0
360	113366	---	---	---	---	---	---	112244	112244
480	113444	---	0	0	0	0	0	0	0
1440	113445	0	---	0	0	0	0	0	0
1440	113446	0	0	---	0	0	0	0	0
1440	113455	---	0	0	0	0	0	0	0
2880	113456	---	---	---	---	---	---	112456	---
1440	113466	---	0	0	0	0	0	0	0
480	113555	0	---	0	0	0	0	0	0
1440	113556	0	0	---	0	0	0	0	0
1440	113566	0	---	0	0	0	0	0	0
480	113666	0	0	---	0	0	0	0	0
240	114444	---	---	---	---	---	---	---	---
960	114445	0	0	---	0	0	0	0	0
960	114446	0	---	0	0	0	0	0	0
1440	114455	---	---	---	---	---	---	114455	---
2880	114456	---	0	0	0	0	0	0	0
1440	114466	---	---	---	---	---	---	---	---
960	114555	0	0	---	0	0	0	0	0
2880	114556	0	---	0	0	0	0	0	0
2880	114566	0	0	---	0	0	0	0	0
960	114666	0	---	0	0	0	0	0	0
240	115555	---	---	---	---	---	---	---	---
960	115556	---	0	0	0	0	0	0	0
1440	115566	---	---	---	---	---	---	---	---
960	115666	---	0	0	0	0	0	115555	---
240	116666	---	---	---	---	---	---	---	---
6	122222	---	---	---	---	111112	111112	111113	111112
30	122223	---	---	---	---	111123	111123	111123	111123
60	122224	---	0	0	0	0	0	0	0
60	122225	0	---	0	0	0	0	0	0
60	122226	0	0	---	0	0	-111126	0	0
60	122233	---	---	---	---	111233	111233	111223	111223
240	122234	---	0	0	0	0	0	0	0
240	122235	0	---	0	0	0	0	0	0
240	122236	0	0	---	0	0	-111236	0	0
240	122244	---	---	---	---	111255	111255	111255	111366
480	122245	0	0	---	0	0	-111245	0	0
480	122246	0	---	0	0	0	0	0	0
240	122255	---	---	---	---	111244	111244	111244	111344
480	122256	---	0	0	0	0	0	0	0
240	122266	---	---	---	---	111266	111266	111266	111355
60	122333	---	---	---	---	112333	112333	111223	111233
360	122334	---	0	0	0	0	0	0	0
360	122335	0	---	0	0	0	0	0	0
360	122336	0	0	---	0	0	-112336	0	0
720	122344	---	---	---	---	112355	112355	112355	112355
1440	122345	0	0	---	0	0	-112345	0	0
1440	122346	0	---	0	0	0	0	0	0
720	122355	---	---	---	---	112344	112344	112344	112344
1440	122356	---	0	0	0	0	0	0	0
720	122366	---	---	---	---	112366	112366	112355	112355
480	122444	---	0	0	0	0	0	0	0
1440	122445	0	---	0	0	0	0	0	0
1440	122446	0	0	---	0	0	-112556	0	0
1440	122455	---	0	0	0	0	0	0	0
2880	122456	---	---	---	---	112456	112456	112456	112456
1440	122466	---	0	0	0	0	0	0	0
480	122555	0	---	0	0	0	0	0	0