Materials available for mixing by TOPS®

Materials can be referenced by chemical symbol, atomic number, or matid. Date refers to date of most recent calculation in month/year format.

Element	Atomic Number	Symbol	NEW MATID	DATE	OLD MATID
Hydrogen	1	Н	115252	9/95	t15250
Helium	2	Не	115762	9/95	t15760
Lithium	3	Li	112291	11/92	t12290
Beryllium	4	Ве	112021	11/92	t12020
Boron	5	В	112331	12/92	t12330
Carbon	6	С	117831	12/92	t17830
Nitrogen	7	N	115001	12/92	t15000
Oxygen	8	0	115011	12/92	t15010
Fluorine	9	F	115041	11/92	t15040
Neon	10	Ne	115411	11/92	t15410
Sodium	11	Na	112440	7/93	t12448
Magnesium	12	Mg	112861	9/93	t12860
Aluminum	13	Al	113716	1/96	t13710
Silicon	14	Si	113811	5/96	t13810
Phosphorus	15	P	113911	11/96	t13910
Sulfur	16	S	114012	10/96	t14010
Chlorine	17	Cl	115021	12/96	t15020
Argon	18	Ar	115172	11/96	t15170
Potassium	19	K	112461	2/97	t12460
Calcium	20	Ca	112031	2/97	t12030
Scandium	21	Sc	112181	8/97	none
Titanium	22	Ti	112961	4/97	t12960
Vanadium	23	V	112551	6/97	t12550
Chromium	24	Cr	113071	6/97	t13070
Manganese	25	Mn	113081	9/97	t13080
Iron	26	Fe	112142	5/97	t12140
Cobalt	27	Со	113121	12/97	t13120
Nickel	28	Ni	113101	9/97	t13100
Copper	29	Cu		Nov 1997	
Zinc	30	Zn	Due in	Nov 1997	t13140

The elements lithium through magnesium will be recalculated with the newest version of the opacity code in late 1997.

Please mail questions or comments to: LANL T-4 Opacities <opacity@t4.lanl.gov>