

BN standard block



Italics - tentative composition or not a reference material

BN block

materials (8)	purity	person / company	source / notes
BN	>99.5?	C.M. Taylor	synthetic
C	>99.5?	C.M. Taylor	synthetic, vitreous
Hawaii basalt glass		Smithsonian	NMNH 113498-1, VG-A99 (Jarosewich et al. 1980)
SiC	>99.5?		synthetic
Indian Ocean basalt glass		Smithsonian	NMNH 113716-1 (Jarosewich et al. 1980)
<i>titanite</i>			
<i>spessartine</i>		<i>C.M. Taylor</i>	<i>supposedly #4D</i>
<i>andradite</i>			<i>oscillatory zoning: And95 Grs5 to And48 Grs52</i>

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	BN		Spessartine
B	43.56	<i>C.M. Taylor</i>	<i>#4D</i>
N	56.44	<i>MnO</i>	<i>40.89</i>
total	100.00	<i>CaO</i>	<i>0.31</i>
		<i>FeO*</i>	<i>1.73</i>
[135]	C	<i>Al2O3</i>	<i>20.58</i>
C	100.00	<i>SiO2</i>	<i>36.25</i>
		<i>TiO2</i>	<i>0.03</i>
[133]	SiC	<i>SnO2</i>	<i>0.055</i>
Si	70.05	<i>total</i>	<i>99.845</i>
C	29.95		
total	100.00		

[51]	Hawaii glass	[100]	Indian Ocean glass
	NMNH 113498-1, VG-A99		NMNH 113716
Jarosewich et al. (1980)		Jarosewich et al. (1980)	
SiO2	50.94	SiO2	51.52
Al2O3	12.49	Al2O3	15.39
FeO*	13.30	FeO*	9.13
MgO	5.08	MgO	8.21
CaO	9.30	CaO	11.31
Na2O	2.66	Na2O	2.48
K2O	0.82	K2O	0.09
TiO2	4.06	TiO2	1.30
P2O5	0.38	P2O5	0.12
MnO	0.15	MnO	0.17
H2O	0.02	H2O	0.18
SO3	0.037	SO3	0.30
excess O	0.19	excess O	0.11
total	99.43	total	100.31

[xyz] Probe-for-EPMA Standard database number

* Total iron expressed as FeO

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