

K409 NBS/NIST Glass (never issued because it was not homogeneous/two phase)

Original "nominal composition" SiO<sub>2</sub> 55, Al<sub>2</sub>O<sub>3</sub> 15, FeO 20, Na<sub>2</sub>O 10 wt%

Two phases: ~800 nm Fe<sub>3</sub>O<sub>4</sub> magnetite (EBSD determination 11/17/13, P. Gopon) crystals

Interstitial glass by EPMA (J Fournelle, 1/8/07) with oxygen analyzed

SiO<sub>2</sub> 56.58 wt%  
Al<sub>2</sub>O<sub>3</sub> 15.10 wt%  
Fe<sub>2</sub>O<sub>3</sub> 17.49 wt%  
Na<sub>2</sub>O 9.82 wt%  
TiO<sub>2</sub> .03 wt%  
MnO .18 wt%  
MgO .05 wt%  
CaO .11 wt%  
excess O -.14 wt%  
Total 99.23 wt%

Si 26.45 wt%  
Al 7.99 wt%  
Fe 12.24 wt%  
Na 7.29 wt%  
Ti 0.02 wt%  
Mn 0.14 wt%  
Mg 0.03 wt%  
Ca 0.08 wt%  
O 45.00 wt%  
Total 99.23 wt%