

Olivine - Marjalahti

J.V. Smith's number YS 24

(YS = Yoder and Sahama)

First analysis taken from Yoder and Sahama,  
(1957), Am. Min., p. 402; second column  
from Smith, (1966), Jour. Geol. p. 9  
(probe analysis)

SiO <sub>2</sub>	40.24	40.3
TiO <sub>2</sub>	0.00	0.0
Al <sub>2</sub> O <sub>3</sub>	0.01	
Fe <sub>2</sub> O <sub>3</sub>	0.68	-
FeO	10.92	11.4
MnO	0.28	0.3
MgO	48.08	47.4
CaO	0.00	0.0
H <sub>2</sub> O(+)	0.00	-
H <sub>2</sub> O(-)	0.04	
Cr <sub>2</sub> O <sub>3</sub>	0.07	0.1
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	100.32	99.5

Further reference: Jones, Ribbe and Gibbs,  
Am. Min. (in press)

obtained from P. Ribbe, Fall 1968.

mole %. forsterite: 87.8

# Maryalahti Olivine

	WT % OXIDE	WT % ELEMENT
SiO <sub>2</sub>	40.24	18.8098
TiO <sub>2</sub>	0.00	
Cr <sub>2</sub> O <sub>3</sub>	0.07	0.0479
Al <sub>2</sub> O <sub>3</sub>	0.01	0.0053
Fe <sub>2</sub> O <sub>3</sub>	0.68	
FeO	10.92	
(FeOT)	11.53	8.9625
MnO	0.28	0.2168
MgO	48.08	28.9975
CaO	0.00	
Total	100.28	