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## Petrogenesis of Fe-Ti oxides in amphibole-rich veins from the Lherz orogenic peridotite (Northeastern Pyrénées, France)

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Table 3: Representative electron microprobe analyses of ilmenite from thick amphibole-rich veins

sample	73-4 core	73-2b vein-wall	73-2b core	73-2c vein wall	73-1A P*	74-18 core	74-18 A*	74-5 core	74-90 core	74-90 A*	70-242
Wt.%											
52.29											
TiO <sub>2</sub>	52.95	53.3	52.7	52.81	52.29	52.96	54.23	52.08	54.64	53.39	53.17
Al <sub>2</sub> O <sub>3</sub>	-	-	-	-	0.05	-	0.07	-	-	-	
Cr <sub>2</sub> O <sub>3</sub>	-	-	-	0.08	0.25	0.11	-	-	0.17	0.11	0.02
Fe <sub>2</sub> O <sub>3</sub>	4.45	4.25	3.55	2.75	1.55	2.35	1.37	3.41	0.83	2.01	2.41
FeO	37.31	37.06	40.37	39.95	43.62	40.72	39.25	39.47	39.85	39.9	39.33
NiO	0.03	-	0.01	0.04	0.02	-	-	0.02	-	-	-
MnO	0.79	0.73	0.46	0.47	0.68	0.59	0.23	0.55	0.52	0.49	0.55
MgO	5.33	5.68	3.68	3.99	1.60	3.57	5.23	3.82	5.35	4.30	4.45
CaO	0.02	0.09	0.02	-	0.06	0.03	0.10	0.04	0.07	0.06	
Sum	100.89	101.12	100.79	100.09	100.15	100.33	100.5	99.38	100.78	100.32	99.93
mol.%											
FeTiO <sub>3</sub>	76.4	75.5	83.2	82.7	92.5	84.6	79.8	82.6	79.8	82.8	81.3
MgTiO <sub>3</sub>	19.5	20.6	13.5	14.7	6.1	13.2	19.0	14.2	19.5	15.4	16.4
Fe <sub>2</sub> O <sub>3</sub>	4.1	3.9	3.5	3.6	1.4	2.2	1.2	3.2	0.7	1.7	2.3

A\* : inclusion in amphibole; P\* inclusion in plagioclase.