

**EBSD settings**

Background (frames)	64	64
Binning	4 x4	4 x 4
Gain	10	10
Hough resolution	60	60
Band detection (min/max)	6/7	6/7
Noise reduction - wild spike'	yes	yes
n Neighbour zero solution extrapolation	5	5
Kuwahara Filter	3 x 3 / 5°/1°	3 x 3 / 5°/1°

<b>Samples</b>	458242	320'6"	458227	458277	SK84 - 36322 - 1935.390/22	660	458289	90/22	450	118916	118917	118919
X steps	1402	670	1410	1408	762	1830	1323	1297	1678	889	754	754
Y steps	917	483	899	560	492	986	956	922	778	667	616	718
Step size (µm)	20	40	20	20	40	20	20	20	20	20	20	20
Zero solution (%)	21.16	11.17	22.86	28.46	18.47	26.33	16.22	26.2	49.39	39.56	8.71	10.28

Phasesmean angular deviationmean angular deviation

Plagioclase	0.48	0.45	0.6	0.57	0.64	0.6	0.58	0.69	0.85	0.79	0.77	0.73
Olivine	0.38	0.33	0.53	0.5	0.58	0.53	0.48	0.64	0.84	0.79	0.74	0.73
Clinopyroxene	0.43	0.37	0.53	0.5	0.59	0.53	0.5	0.63	0.84	0.82	0.89	0.8
Orthopyroxene	0.5	0.33	0.63	0.63	0.63	0.6	n/a	0.72	0.95	n/a	0.94	0.9
Ilmenite	0.3	0.31	0.42	0.42	0.5	0.44	0.37	0.52	0.74	0.87	0.67	0.64
Magnetite	0.03	0.41	n/a	0.6	0.6	0.6	0.47	0.57	0.91	0.69	0.75	0.67

References for the matching unitsReferences for the matching units

Plagioclase	American Mineralogist, (1990) vol 75. pp 150-162	American Mineralogist, (1990) vol 75. pp 150-162
Olivine	Forsterite.cry (Aztec Database)	Forsterite.cry (Aztec Database)
Clinopyroxene	American Mineralogist, (1981) vol 66. pp 315 - 323	Diopside.cry (Aztec Database)
Orthopyroxene	American Mineralogist, (1995) vol 80. pp 9-20	Enstatite.cry (Aztec Database)
Ilmenite	American Mineralogist, (1984) vol 69. pp 176 - 185	J. Appl. Crystallogr. (1978), vol 11. pp 121-124
Magnetite	American Mineralogist, (1984) vol 69. pp 754 - 770	American Mineralogist, (1984) vol 69. pp 754-770

