Brittle deformation in Southern Granulite Terrane (SGT) : A study of Pseudotachylyte bearing fractures along Gangavalli shear zone (GSZ), Tamil Nadu, India.


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1. Introduction:

2. Field Observation:

3. Microstructural Observation:

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II. Structural analysis of incorporated clasts:

III. Microstructural Observation:

IV. Analysis of the matrix, microlites and clasts:

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Appendix:

Regional compression along NW directed produces the brittle shear zone in Southern Granulite Terrane (SGT). Field observations indicate the presence of pseudotachylyte melt through which the brittle deformation is produced during a seismic event that generates ultrahigh temperature. No further evidences of high speed friction of adjacent blocks during a seismic event that generates ultrahigh temperature. No further evidences of high speed friction of adjacent blocks during a seismic event that generates ultrahigh temperature. No further evidences of high speed friction of adjacent blocks during a seismic event that generates ultrahigh temperature.