

Minéralisation du thallium de Jas Roux, La Chapelle-en-Valgaudemar (Hautes-Alpes)

Tl-rich hydrothermal stratiform deposit in dolomitic limestones.
Located in the Écrins National Park ('Parc national des Ecrins').

Note on the mineral list: Johan & Mantiene (2000) also describe four new phases:

- $\text{Pb}_9\text{Ag}(\text{Sb},\text{As})_{13}\text{S}_{29}$ with optical properties similar to jamesonite, with a monoclinic unit-cell with $a = 17.640$, $b = 18.464$, $c = 3.967 \text{ \AA}$, $\beta = 90^\circ 48'$, $V = 1292 \text{ \AA}^3$, $Z = 1$, $D_{\text{calc}} = 5.51$
- a phase $\text{Tl}(\text{As},\text{Sb})_{10}\text{S}_{16}$ that is X-ray amorphous
- a phase $\text{Tl}(\text{Sb},\text{As})_7\text{S}_{11}$ that is weakly anisotropic with reflectivity close to chabourneite
- a phase $\text{Ag}_2\text{SbAsS}_4$, representing a reaction product between smithite and chabourneite

Mineral List

Aktashite	Parapierrrotite
Andorite	Pharmacosiderite
Andorite IV	Pierrotite (TL)
Baryte	Pyrite
Calcite	Quartz
Chabournéite (TL)	Realgar
Dolomite	Routhierite (TL)
Dorallcharite	Smithite
Goethite	Sphalerite
Guettardite	Stibnite
Gypsum	Szomolnokite
Kermesite	Twinnite
Klebelsbergite	Valentinite
Laffittite (TL)	Voltaite
Madocite	Wakabayashilite
Millosevichite	Zinkenite
Orpiment	

33 entries listed. 31 valid minerals. 4 type localities (valid minerals). Mineral List

References

- Asselborn, E. (1982): Jas Roux: Seltene Sulfosalze aus den französischen Alpen. Lapis, 7 (1), 29-xx (in German).
- Johan, Z. & Mantiene, J. (2000): Thallium-rich mineralization at Jas Roux, Hautes-Alpes, France: a complex epithermal, sediment-hosted, ore-forming system. J. Czech Geol. Soc. 45, 63-77.
- Boulliard, J.C., Morin, G., Bourgoin, V. & Favreau, G. (2010): Minerals of Jas-Roux (France): an update. 20th General Meeting of the IMA (IMA2010), Budapest, Hungary, August 21-27, CD of Abstracts, p. 422.

Parapierrrotite, 5mm 'vein' of silvery grey Parapierrrotite.
Jas Roux, Pelvoux Mt., Valgaudemar, Hautes-Alpes, Provence-Alpes-Côte d'Azur, France.
Photo: Maurice de Graaf

