

**substance:** OsSb<sub>2-x</sub>Te<sub>x</sub>, CoSb<sub>2-x</sub>Te<sub>x</sub>  
**property:** physical properties

**OsSb<sub>1.95</sub>Te<sub>0.05</sub>**

**activation energy**

$E_A$	0.018 eV	$T < 160$ K	from $\log \rho \propto E_A/kT$ in the range	65J
			77...160 K	

resistivity, temperature dependence in the range 77...900 K: Fig. 1. thermoelectric power, temperature dependence in the range 77...800 K: Fig. 2.

**CoSb<sub>2-x</sub>Te<sub>x</sub>**

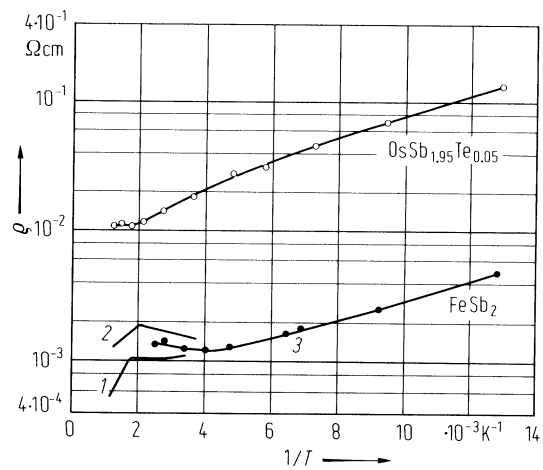
marcasite structure for  $x = 0.2...2$  [76Y]; peritectic temperature decreases with  $x$  [78A].

## References:

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**Fig. 1.**

$\text{FeSb}_2$  and  $\text{OsSb}_{1.95}\text{Te}_{0.05}$ . Electrical resistivity vs. reciprocal temperature [65J]. Sintered samples.  $\text{FeSb}_2$ : 1 [60D], 2 [59H], 3 [65J].



**Fig. 2.**

$\text{FeAs}_2$ ,  $\text{FeSb}_2$ ,  $\text{OsSb}_{1.95}\text{Te}_{0.05}$ . Seebeck coefficient vs. temperature [65J].  $\text{FeAs}_2$ : polycrystalline natural sample containing traces of calcite;  $\text{FeSb}_2$  and  $\text{OsSb}_{1.95}\text{Te}_{0.05}$ : pressed samples sintered at 873 K and 973 K, respectively.

