

**substance: ErD<sub>x</sub>**

**property: crystal structure, physical properties**

**ErD<sub>2+x</sub> [95V]**

semiconductor: x = 0.06

$\rho$                       61.5  $\mu\Omega\text{cm}$                        $T = 262\text{ K}$   
                                 92.5  $\mu\Omega\text{cm}$                        $T = 290\text{ K}$

semiconductor: x = 0.045

$\rho$                       223  $\mu\Omega\text{cm}$                        $T = 244\text{ K}$   
                                 239  $\mu\Omega\text{cm}$                        $T = 260\text{ K}$

semiconductor: x = 0.06

$\rho$                       264  $\mu\Omega\text{cm}$                        $T = 246\text{ K}$   
                                 275  $\mu\Omega\text{cm}$                        $T = 257\text{ K}$

SC-M transition:  $T = 20.5\text{ K}$                       94V  
M-SC transition:  $T = 262(2)\text{ K}$  (cooling)  
M-SC transition:  $T = 290(1)\text{ K}$  (heating)

SC-M transition:  $T = 79\text{ K}$                       94V  
M-SC transition:  $T = 244(1)\text{ K}$  (cooling)  
M-SC transition:  $T = 260(1)\text{ K}$  (heating)

SC-M transition:  $T = 39\text{ K}$                       94V  
M-SC transition:  $T = 246(1)\text{ K}$  (cooling)  
M-SC transition:  $T = 257(1)\text{ K}$  (heating)

## References:

- 94V Daou, J.N., Vajda, P.: Phys. Rev. B 50 (1994) 12635.
- 95V Vajda, P.: "Hydrogen in rare-earth metals, including  $RH_{2+x}$  Phases" in: Handbook on the Physics and Chemistry of Rare Earth, Vol. 20, Gschneidner, K.A., Jr., Eyring, L. (eds.), Elsevier Science, 1995, p. 207.