

substance: VO₂

property: Hall mobility

μ_H	0.5 cm ² /V s	$\parallel c_R, T \leq T_{tr}$	little change when passing through	73R
	0.35 cm ² /V s	$T = 353 \text{ K}$	T_{tr} , almost constant with T , h	
	0.08...0.13 cm ² /Vs	$T = 335...273 \text{ K}$ (ceramic sample)	decreasing by 0.6% per K [73R]	66K
	0.07...0.14 cm ² /Vs	$T = 300 \text{ K}$	measurements on films	68H, 72K
	0.5...0.7 cm ² /V s	$\parallel c_R, T = 295 \text{ K}$		66B
	0.1...1.0 cm ² /V s	$\parallel c_R, T < T_{tr}$	some anisotropy reported; $\mu_{\parallel c_R} \approx 2\mu_{\perp c_R}$; carrier concentration $n = 10^{18}...10^{19} \text{ cm}^{-3} (T < T_{tr})$	69B
	16...19 cm ² /V s	$\parallel c_R, T > T_{tr}$	values of 1...10 cm ² /V s calculated by [69B]. Carrier concentration estimated at $3 \cdot 10^{21} \text{ cm}^{-3}$ [66B]. $T > T_{tr}$	66B

For Hall measurements (mobility and carrier concentration), see Figs. 1, 2.

References:

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- 68H Hensler, D. H.: J. Appl. Phys. 39 (1968) 2360.
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- 72K Kwan, C. C. Y., Griffith, C. H., Eastwood, H. K.: Appl. Phys. Lett. 20 (1972) 93.
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Fig. 1.

VO₂. Hall mobility $\parallel c_R$ vs. temperature near T_{tr} [73R].

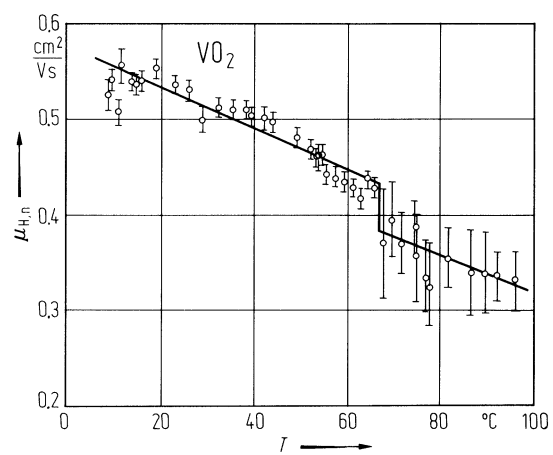


Fig. 2.

VO₂. (Hall) carrier concentration (per V atom) vs. temperature near T_{tr} [73R].

