

HP6

Values of $\rho c^2_{q,p}$

Direction
of polarization

Direction of propagation

	100	110	111
Longitudinal	c_{11} = 4.2	$\frac{1}{2} [c_{11} + c_{12} + 2c_{44}]$ = 6.4	$\frac{1}{3} [c_{11} + 2c_{12} + 4c_{44}]$ = 7.1
Transverse 001	c_{44} 2.6	$c_{44} = 2.6$	-
110	-	$\frac{c_{11} - c_{12}}{2} =$.41	$\frac{c_{11} - c_{12} + c_{44}}{3} =$ 1.15

Numerical values are for potassium in units of dynes/cm² x 10⁻¹⁰, using values of c_{11} , c_{12} , c_{44} from Table 1-1.

Table 4 - 3

Velocity of Sound in Potassium