MPG No. 8.3.26 $m'mm$ (m'mm setting) [Type III, orthorhombic] [T tensor]

* Rank 0 tensor. * Rank 1 tensor.

$$\begin{bmatrix} T_x & 0 & 0 \end{bmatrix}$$

$$T_x = T^{(1)}_{px}$$

* Rank 2 tensor (s). * Rank 2 tensor (a). * Rank 3 tensor (s).

$$\begin{bmatrix} T_{xxx} & 0 & 0 \\ T_{yyx} & 0 & 0 \\ T_{zzx} & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & T_{zxz} \\ 0 & T_{xyy} & 0 \end{bmatrix}$$

$$T_{xxx} = 2T^{(1)}_{fax} + T^{(1)}_{px} + 2T^{(2)}_{px}$$
$$T_{yyx} = -2M^{(1)}_{dyz} - T^{(1)}_{fax} + T^{(1)}_{fbx} + T^{(1)}_{px}$$
$$T_{zzx} = 2M^{(1)}_{dyz} - T^{(1)}_{fax} - T^{(1)}_{fbx} + T^{(1)}_{px}$$
$$T_{zxz} = -M^{(1)}_{dyz} - T^{(1)}_{fax} - T^{(1)}_{fbx} + T^{(2)}_{px}$$
$$T_{xyy} = M^{(1)}_{dyz} - T^{(1)}_{fax} + T^{(1)}_{fbx} + T^{(2)}_{px}$$

* Rank 3 tensor (a).

$$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & T_{zxz} \\ 0 & T_{xyy} & 0 \end{bmatrix}$$

$$T_{zxz} = M^{(2)}_{dyz} + T^{(3)}_{px}$$
$$T_{xyy} = M^{(2)}_{dyz} - T^{(3)}_{px}$$

* Rank 4 tensor (sss). * Rank 4 tensor (ssa). * Rank 4 tensor (aas). * Rank 4 tensor (aaa). * Rank 4 tensor (sa). * Rank 4 tensor (as). * Rank 4 tensor (s). * Rank 4 tensor (a). * Rank 4 tensor (t).