

Industrial & Precious Metals Limited

Data sheet RG Series AgWC

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Silver Tungsten Carbide Materials

RG Series

Technical Data

| Grade * | Nominal Composition | Density (gm/cm ³) | Electrical Conductivity (m.Ω/mm ²) | Hardness (HV) |
|------------|---------------------|-------------------------------|--|---------------|
| IPM RG G12 | Ag60%/WC40% | 11.7 | 34 | 130-160 |
| IPM RG G13 | Ag50%/WC50% | 12.2 | 29 | 140-170 |
| IPM RG G14 | Ag40%/WC60% | 12.8 | 22 | 150-180 |
| IPM RG G15 | Ag35%/WC65% | 13 | 20 | 150-190 |

* Other grades may be available - please ask

Application

Typical : Circuit Breakers : (ACB/MCCB), Earth Leakage Breakers (RCCB), Miniature Circuit Breakers (MCB)

Comments

Produced by sintering and infiltration the IPM RG Series of materials maintain a more stable contact resistance than Silver Tungsten (IPM RS Series), resulting in a lower voltage drop across the contacts, therefore reducing operating temperature: Particularly useful in MCB applications where the temperature rise under load must be kept to a minimum.

Forms of Supply:

Although the manufacturing route is similar to the IPM RS Series, the material is significantly more difficult to press therefore there are more limitations on sizes of contact available - please refer to us with your design.

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www.industrialpreciousmetals.co.uk