

**CMW® ELKONIUM 30 pure platinum**

Category : Metal , Nonferrous Metal , Precious Metal , Platinum Alloy , Pure Element

**Material Notes:**

Platinum has complete freedom from atmospheric corrosion and is preferred for devices that have low closed forces and where surety of making a circuit may be a problem. It has a high melting point (1769(C) and good resistance to forming arcs. Low electrical conductivity (15% IACS) limits its application to low currents, usually below 5 amperes. Because of the high cost of the platinum ELKONIUM alloys, they are almost always supplied as composite contacts with thin facings of the ELKONIUM metal (silver brazed to nickel plated steel backings in the form of rivets, screws and weld buttons).ELKONIUM® 30 material sold by CMW is commercially pure platinum (99.90% minimum purity) Freedom from tarnish and low hardness makes it a very reliable contact in low force, low current AC and DC applications. It is recommended for sensitive instruments and relays, particularly where contacts are open for long periods of time.Information provided by CMW Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMW-ELKONIUM-30-pure-platinum.php](http://www.lookpolymers.com/polymer_CMW-ELKONIUM-30-pure-platinum.php)

Physical Properties	Metric	English	Comments
Density	21.4 g/cc	0.773 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 15T	60	60	annealed
	75	75	cold worked
Tensile Strength, Ultimate	138 MPa	20000 psi	annealed
	241 MPa	35000 psi	cold worked
Elongation at Break	5.0 %	5.0 %	cold worked
	35 %	35 %	annealed

Component Elements Properties	Metric	English	Comments
Platinum, Pt	>= 99.9 %	>= 99.9 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000115 ohm-cm	0.0000115 ohm-cm	15 % IACS

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