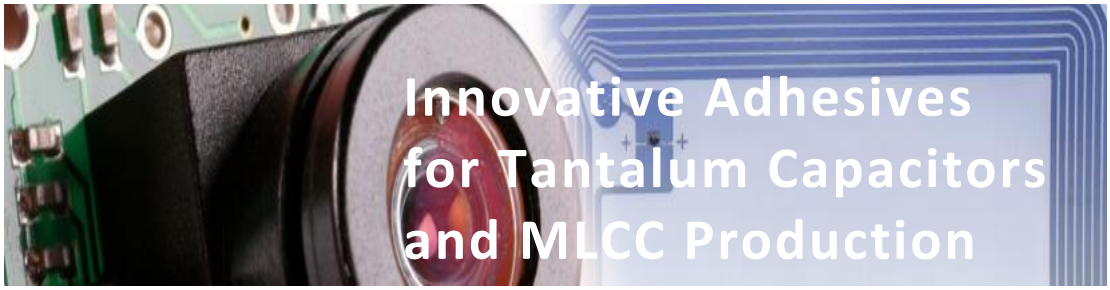
PROTAVIC
INTERNATIONAL



Innovative Adhesives for Tantalum Capacitors and MLCC Production

TECHNOLOGIES	ADVANTAGES
➢ DIE ATTACH	Proven materials with long history in passive component assembly
➢ END TERMINATION	Improved flexibility for excellent bending performance
➢ COATING	Silver coating with good adhesion on graphite layers, used in tantalum capacitors

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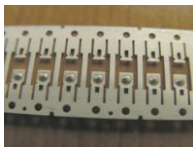
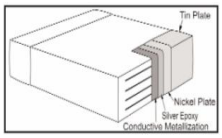


➢ DIE ATTACH

Typical Application

Electrically conductive adhesives are used for the internal connections in tantalum capacitors. **PROTAVIC** offers a range of materials with a very long history and proven track record in this market.

ELECTROCONDUCTIVE PROTAVIC®	VISCOSITY AT 5 RPM (mPa.s)	ELECTRICAL CONDUCTIVITY (mΩ.cm)	THERMAL CONDUCTIVITY (W/m.K)	TG (°C)	STORAGE COND.	POT LIFE AT 20±2°C	CURING SCHEDULE	YOUNG MODULUS
PROTAVIC® ACE 10100	10000	0.10		70	3 months@-20°C	<1day	2min@175°C	
PROTAVIC® ACE 10131	10000	0.10	2.65	70	6 months@-20°C	<2days	2min@175°C	9GPa@25°C 0,49GPa@150°C 0.42GPa@250°C



➢ END TERMINATION

Typical Application

PROTAVIC's soft termination materials, used as end terminations in the manufacturing of passive components, provide excellent flexibility. This results in improved bending performance, which is an ever demanding requirement for high reliability markets such as automotive, defense and/or military electronics.

ELECTROCONDUCTIVE PROTAVIC®	VISCOSITY AT 5 RPM (mPa.s)	ELECTRICAL CONDUCTIVITY (mΩ.cm)	TG (°C)	CTE (ppm/°C)	STORAGE COND.	WORK LIFE IN BASS AT 20±2°C	CURING SCHEDULES	DENSITY	COMMENT
PROTAVIC® BCE 30370	15000	0.20	80-95		6 months@-20°C	16 hrs	Air dry +1hr@150°C	~2.9	To use with diluent PROTAVIC®434
PROTAVIC® BCE 30371	7000 @ 10rpm	0.15	80-95		3 months@10°C	16 hrs	Air dry +1hr@150°C	~2.7	To use with diluent PROTAVIC®434
PROTAVIC® BCE 30374	18000	0.15	80-95		6 months@-20°C	16 hrs	Air dry +1hr@150°C	~2.9	To use with diluent PROTAVIC®434
PROTAVIC® BCE 30374 M	5000	0.15	80-95		6 months@-20°C	16 hrs	Air dry +1hr@150°C	~3.1	To use with diluent PROTAVIC®434
PROTAVIC® BCE 30375 M	3000	0.25	80-100		3 months@25°C	16 hrs	Air dry +1hr@150°C	~2.7	To use with diluent PROTAVIC®434
PROTAVIC® BCE 30380	5000	0.05	80-95	60-65	6 months@10°C	3 months	6mn@90°C +30min@180°C	~3.1	To use with diluent PROTAVIC®434
PROTAVIC® BCE 30382	4500	0.03	90-105	60-65	6 months@10°C	16 hrs	Air dry +30min@180°C	~3.1	To use with diluent PROTAVIC®434

➢ COATING

Typical Application

PROTAVIC has developed a conductive coating **PROTAVIC® BCE 60462** with excellent adhesion on graphite coatings, typically used in the manufacturing of tantalum capacitors. It's good conductivity assures low resistivity and long term reliable performance.

ELECTROCONDUCTIVE PROTAVIC®	VISCOSITY AT 5 RPM (mPa.s)	ELECTRICAL CONDUCTIVITY (mΩ.cm)	TG (°C)	STORAGE COND.	POT LIFE AT 20±2°C	DENSITY	COMMENT
PROTAVIC® BCE 60462	1000	0.15	70-90	1 year@-20°C	<3 months	~1.6	To use with diluent PROTAVIC®434