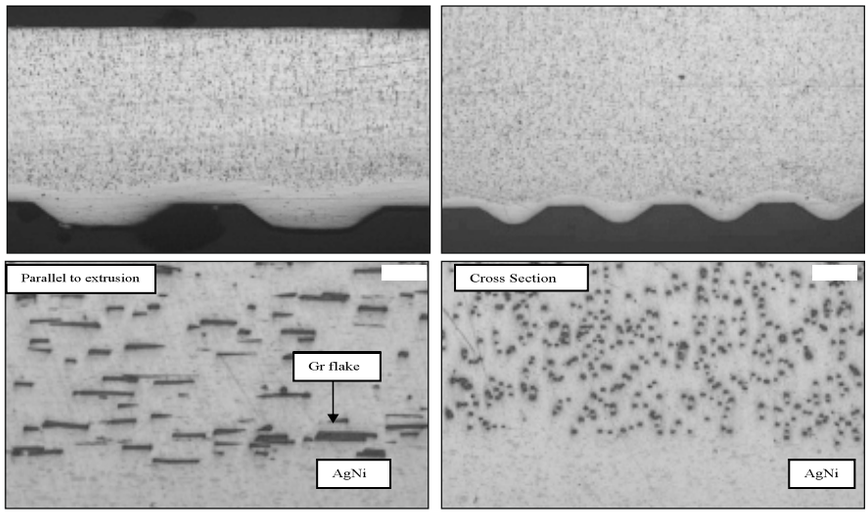
Silver Graphite

SILGRPIT

Electrical contact materials consist almost entirely of silver, silver alloys and powder metallurgical sintered combinations. PM facilitates the combination of silver, copper with other metals which cannot be achieved by alloying. When Ag is combined with non-alloying metals by PM the ensuing combination has the characteristics of both the combining metals. The electrical conductivity of the combinations is moderately less than of the pure silver. The most frequently used silver combinations are silver tungsten (AgW) and silver graphite (AgC) systems. Among these the silver graphite combinations with graphite ranging from 2%-6% are popularly being used in low voltage switches and molded case circuit breaker contact system. The graphite in the combination offers protection against welding and wear resistance. Based on the orientations of graphite particles various combinations of silver-graphite are possible.

Modison manufactures varied range of AgC with graphite ranging from 2%-6% in the form of tips and profiles.

Composition (%)	Brand	Mfg. Process	Graphite (%)	Density (g/cc)	Hardness(HV)	Electrical Conductivity (%IACS)
AgC2	SILGRPIT2V	Extruded & Cut	2	9.4	42	90
AgC3	SILGRPIT3V		3	9.1	40	86
AgC4	SILGRPIT4V		4	8.8	38	84
AgC5	SILGRPIT5V		5	8.6	36	76
AgC2	SILGRPIT2	Extruded & Blanked	2	9.4	42	90
AgC3	SILGRPIT3		3	9.1	40	86
AgC4	SILGRPIT4		4	8.8	38	84
AgC5	SILGRPIT5		5	8.6	36	76
Note: Other than the above combinations Modison can also manufacture AgC with graphite flakes ranging from 20µm – 100µm length with Ag/AgNi layer.						



MODISON
THE SILVER PEOPLE

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