



Product Information Technical

Liquid copper solution

RL CU A6052A-6,4% H

1 General Information

RL CU A6052A-6,4% H is a metallo organic material basing on copper in solution. The material is typically used as additive for example in the production of metallo organic metal pastes for technical usage.

2 Properties of the product

The major characteristics of a Heraeus precious metal preparation are determined by its production recipe. From each lot produced, we take a sample and check defined characteristics.

Form:	Green liquid
Viscosity:	200 - 500 mPas (20°C, D=50s ⁻¹)
Copper content:	6,4% +- 0,2%
Chemical characterization:	Copper carboxylate in organic solvents
Calicinated residue:	8,0% +- 0,3% (theoretical value)

3 Storage

Liquid golds are subject to an ageing process. Therefore, we recommend using the material within 6 months. The material should be stored at room temperature (20°C). Cool storage – but no freezing – has a positive impact on the shelf life.

4 Processing

The solution is miscible with halogenated hydrocarbons, some higher alcohols (e.g. Terpeneol), esters and ketones (e.g. Cyclohexanone). Not miscible with aliphatic and aromatic hydrocarbons, lower alcohols, esters and ketones. The material can be thinned with cyclohexanone or toluene.

5 Remarks

5.1 Determination of the properties

The properties of the product are determined following standardized laboratory test procedures. For optimal results the material should be fired in a profiled furnace supplied with dried, hydrocarbon and other contaminant free air.

5.2 REACH (SVHC)

The material is REACH (SVHC) compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (“REACH”) by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

5.3 RoHS

The material is RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances (“RoHS”) and its subsequent amendments (including the exceptions related to Pb)