



Product Information Technical

Liquid boron solution

RL B OL-11A H

1 General Information

RL B OL-11A H is metallo organic boron solution typically used as additive in 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:	Clear light yellow solution
Viscosity:	5 - 15 mPas (20°C, D=50s ⁻¹)
Boron content:	1,5% +- 0,1%
Chemical characterization:	Boric acid ester in organic solution
Calicinated residue:	4,85% +- 0,3% B ₂ O ₃ (calculated from Boron content)

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 aromatic hydrocarbons, essential oils, alcohols (e.g. terpineeuk), esters and ketones (e.g. cyclohexanone), but not miscible with aliphatic hydrocarbons. 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 standardizes laboratory test procedures. For optimal results the material should be fired in a profiled furnace supplied with dried, hydrocarbon and other contimaninant 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)

The statements concerning our products correspond to our current knowledge and experience. It is the obligation of the purchaser to examine the usefulness of the products in its intended use in each individual case. In order to prevent production losses the user has to test the preparations in connection with every other material being involved in the production process and has to be satisfied that the intended result can be consistently produced.