

金刚石研磨液 Diamond grinding liquid

1、产品介绍 Product introduction

金刚石研磨液是以金刚石为磨料，通过添加分散剂等方式分散到液体介质中，从而形成具有磨削作用的液体。此固液混合物无毒，无腐蚀，常温常压下放置，稳定性好，其密度为 0.8g/cm³，粘度为 10 Cp（20℃）。重山光电研发的金刚石研磨液是用于 LED 芯片加工中，对其衬底蓝宝石材料进行单面减薄和抛光的油基多晶金刚石研磨液。

Diamond grinding liquid is a kind of liquid that takes diamond as abrasive material and the diamond is dispersed into liquid medium by adding dispersant and surfactant, thus the liquid with grinding action is formed. The solid-liquid mixture is non-toxic, non-corrosive. At normal temperature and pressure, its character is stable, its density is 0.8 g/cm³, viscosity is 10 Cp (20 °C). The diamond grinding liquid developed by us is an oil-based polycrystalline diamond lapping liquid used in the processing of LED chip for the single surface thinning and polishing of its substrate sapphire material.

2、产品指标 Quality specification

项目 Items	单位 Unit	指标 Index
金刚石粉 Diamond powder	ω/%	≤2.0
溶解油 Dissolve oil	ω/%	≤90
分散剂 Dispersant	ω/%	≤5
乳化剂 Emulsifier	ω/%	≤5
稳定剂 Stabilizer	ω/%	≤5
其他碳氢化合物 Other hydrocarbons	ω/%	≤5

3、产品用途 Application

金刚石研磨液具有良好的磨削作用，广泛用于蓝宝石衬底的研磨、抛光和光学玻璃加工等领域。

Diamond grinding fluid has good grinding effect and is widely used in the lapping and polishing of sapphire substrate and optical glass processing.

4、包装、贮藏 Packaging and storage

金刚石研磨液存储在 20~40℃ 条件下，需避光保存。本品易于沉降，使用前及使用中需搅拌均匀。本品盛放于 500ml 加仑桶中，也可根据用户需求进行包装。

Diamond grinding fluid is stored in 500ml gallon barrel, the storage temperature is among 20~40 °C, it is need to keep in dark place. This product is easy to precipitate and needs to be mixed evenly before using. Packaging specifications can be customized according to customers' requirements.