



Ultra-Sol 201A - 280 / 140 / 60 Colloidal Alumina

APPLICATION NOTES

INTRODUCTION

Ultra-Sol 201A-280/140/60 colloidal alumina slurry is used for polishing a wide variety of materials, including II-VI materials (NiFe, GaAs, GaN, InP), ferrites, and carbides. These products are based on the Ultra-Sol 200A chemistries using three grades of finer particle to provide better process solutions where finer finishes are required. Produced in the acidic pH range of 3.5 to 4.0.

Ultra-Sol 201A-280/140/60 are acidic colloidal alumina dispersions, with advanced chemical-mechanical action, that provides superior surface finishes. The unique, proprietary alumina particles provide aggressive removal rates while maintaining superior surface finishes. The acidic pH allows its chemical-mechanical action to provide superior, low scatter finishes in a wide variety of applications.

The information provided in this note should be used as a starting point for the customer's application.

USE

It is recommended that **Ultra-Sol 201A-280/140/60** be used in pure form. However, it may be diluted up to a 1:1 ratio using only high-quality de-ionized water (>18 M ohm). Mild agitation will keep the diluted slurry suspended. The product should be mixed periodically (10 to 20 min/day) by re-circulation or mechanical stirring. If diluted slurry is allowed to sit long enough to settle out of suspension, re-use of the settled solids, without proper rework, may cause some minor scratching and should be avoided. Storage and re-use of diluted slurry is not recommended. Due to the unique formulation, it is further recommended that the user not adjust the pH. If a different pH is required, please contact your EMINESS Technologies, Inc. Applications Engineer, for assistance in attaining the desired results.

Standard packaging includes five (5) gallon pails and fifty-five (55) gallon drums. One (1) gallon bottles are also available upon request. All containers are High Density Polyethylene (HDPE). Maintain storage in a temperature-controlled environment, between 40 and 100°F, avoiding prolonged exposure at either extreme.

Ultra-Sol 201A-280/140/60 is a safe, aqueous based slurry. However, to avoid skin or eye irritation, handlers should use personal protective equipment including, rubber gloves, protective clothing, and eye protection. Follow all MSDS and label precautions and use appropriate industrial safety and hygiene practices when handling or using this product.

*If you have any questions or comments, please don't hesitate to call
your EMINESS Technologies, Inc. Applications Engineer.*