

AZG-442

Aluminum Zirconium Tetrachlorohydrate Glycine Concentrated Solution

GENERAL INFORMATION

AZG-442 is a solution of standard aluminum zirconium tetrachlorohydrate glycine, and its high solids concentration allows the use of less formula water.

AZG-442 is ideally suited for use in emulsion, aqueous and clear roll-ons as well as clear gels and aqueous creams.

INCI NAME

Aluminum Zirconium Tetrachlorohydrate Gly

CHEMICAL & PHYSICAL PROPERTIES

% Aluminum	6.5 - 7.5
% Zirconium	6.0 - 7.0
% Chloride	7.5 - 8.5
Al:Zr Molar Ratio	3.4:1 - 3.8:1
Metals:Cl Molar Ratio	0.90:1 - 1.50:1
pH (15% aqueous)	3.0 - 5.0
% Anhydrous	33 - 37
Iron (PPM)	75 maximum
Elemental Impurities	Passes USP

These are typical properties not to be used for specification purposes

APPLICATIONS

- Emulsion and clear roll-ons
- Emulsion creams
- Clear gels

KEY PROPERTIES

- Reduction of perspiration from underarms, hands, feet.

- Reduction of underarm odor (deodorancy).
- Antimicrobial against gm (+) micro-organisms.

INCORPORATION

- Avoid anionic surfactants.
- Avoid self-emulsifying grades of emulsifiers.
- Avoid strong bases.
- Recommended pH range of final product is 3.5-4.5.
- Cannot be used in aerosols.

LEVELS OF USE

20% maximum on an anhydrous active basis.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

STORAGE RECOMMENDATIONS

AZG-442 should be kept in sealed containers when not in use.

AZG-442 should be protected from temperatures in excess of 48°C (120°F). The product freezes at -6°C (21°F). If the solution freezes it will, upon thawing, easily reconstitute with no alteration of activity or compatibility.

SHELF LIFE

AZG-442 has a shelf life of minimum 6 (six) months from date of manufacture.

QUALITY ASSURANCE

All of the Elementis antiperspirant manufacturing facilities are FDA registered, cGMP/ICH compliant and audited regularly.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

© Copyright 2018, Elementis Specialties, Inc. All rights reserved. Copying and/or downloading of this document or information therein for republication is not allowed unless prior written agreement is obtained from Elementis Specialties, Inc.

© Trademark of Elementis SRL, Inc.

May 2018

North America

Elementis
469 Old Trenton Road
East Windsor, NJ 08512, USA
Tel.: +1 609 443 2500
Fax: +1 609 443 2422

Europe

Elementis UK Ltd.
c/o Elementis GmbH
Stolberger Strasse 370
50933 Cologne, Germany
Tel.: +49 221 2923 2066
Fax: +49 221 2923 2011

Asia

Deuchem (Shanghai) Chemical Co., Ltd.
99, Lianyang Road
Songjiang Industrial Zone
Shanghai, China 201613
Tel.: +86 21 5774 0348
Fax: +86 21 5774 3563