

ALUMINUM COMPANY OF AMERICA

ALCOA BUILDING • PITTSBURGH, PENNSYLVANIA 15219



PLAINTIFF'S EXHIBIT

Q-995

ENVIRONMENTAL DATA

Product Name(s) Alcoa Aluminas - A1, A2, A3, A5, A10, A12, A13, A14, A15,
A16, A17, XA139, XA141, A301, A302, A303, A305.

Chemical name or type Calcined Alumina

Chemical formula Al₂O₃

1. Composition and properties:

1.1 Composition

Calcined aluminum oxide (alumina) having normal maximum levels of other metals as follows:

Antimony	1 part per million
Arsenic	1 " " "
Bismuth	1 " " "
Cadmium	1 " " "
Chromium	5 parts " "
Copper	5 " " "
Lead	2 " " "
Manganese	5 " " "
Mercury	20 parts per billion

and no detectable levels of the following materials:

Amines (low molecular weight)
Cyanides (inorganic)
Phenols (monomeric)

1.2 Physical form Amorphous powder

1.3 Color White

1.4 Specific Gravity 3.6 - 3.9

1.5 Bulk density 48 - 63 lb./ft.³

F35-13201

January, 1972

1.6 Solubility

In water Insoluble, very slightly soluble in acids and alkalies.

In other solvents Insoluble in organic solvents.

1.7 Odor None

1.8 Melting point 3700° F

1.9 Corrosivity non-corrosive

1.10 Explosive limits None

1.11 Chemical activity when exposed to:

Air None

Water None

Heat None

Strong oxidizers None

1.12 Products formed in event of exposure to:

Heat None

Fire None

2. Physiological effects

2.1 Toxicity

"By ingestion, negligible. By inhalation, low." "Hygienic Guide
Series - Aluminum and Aluminum Oxide" issued by the American
Industrial Hygiene Association.

2.2 Irritation

Primary irritant? No

Sensitizer? No

2.3 Warning properties

Odor None

Irritation None

2.4 Chronic hazard? None

2.5 Threshold Limit Value For "inert" or nuisance particulate 10 mg/m³
or 30 mppcf, whichever is lower per ACGIH Threshold Limit Values of
Airborne Contaminants, Notice of Intended Changes, 1971.

3. Food Additives Amendment Status Not applicable

4. Recommended Practices for Use

4.1 Operations Handling equipment should be designed to keep airborne
dust to minimum for worker comfort.

4.2 Protective equipment Mechanical filter respirators may be helpful
for employee comfort if airborne dust cannot
be minimized.

4.3 Restrictions on discharge to atmosphere

Consult locally applicable regulations for particulate emissions.