

# AV-102 Catalyst AP

Additives, Catalysts, Auxiliary Products

## General Specifications

### Description

AV-102 CATALYST AP (often referred to as "AP") is a white crystalline solid used with AV-100 Chemical Grout as a polymerization initiator.

### Physical Data

MW (mol): 228.2

Active Oxygen: 6.87% min.

Particle Size: 100% passing U.S.# 8 mesh

MIL-SDT-1341/National Fire Protection Assoc.: SDT 704M Signal

Flammability = 2: Health = 2

Reactivity = 2: Specific Hazard = Oxidizer

CAS NO. 7727-54-0 – 100%: No TLV Published

Solubility: 79 gms/100 gms water @ 20°C

Flashpoint: Non-Combustible

### Viscosity

1 to 2 CPS in solution

### Packaging

Pail – 50 lbs. – Gross Weight 50 lbs. ea. – 24 pails per pallet

Drum – 225 lbs. – Gross Weight 225 lbs. ea. – 4 drums per pallet

### Shipping

Motor Class 65

Hazard Class: 5.1

### Air Freight available for:



50 lb Pails



### Motor Freight required for:



225 lb Drums



# AVANTI

AvantiGrout stops leaks. Permanently.

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## Technical Specifications

### Description

The chemical name of AV-102 Catalyst AP is Diammonium Peroxydisulfate, (ammonium persulfate) from the chemical family Peroxygen. AV-102 is a strong oxidizing material which decomposes with liberation of oxygen, ammonia, and fumes of sulfuric acid at approximately 175°C (347°F). To extinguish, use water or water fog.

### Mix Ratio and Procedure

- See Mixing instructions when using AV-100 Liquid Blend
- See Mixing instructions when using AV-100 Acrylamide and MBA Emulsion
- See Mixing instructions when using AV-100 Powder Blend

### Storage

Dry solid ammonium persulfate may be stored in the shipping container as received. Containers should be stored in a cool dry area.

Clean plastic or stainless steel scoops are suitable for removal from the shipping container. Metals other than stainless steel may cause decomposition of persulfate solutions; use care so that contaminants are not introduced.

Ammonium persulfate is a strong oxidizing agent and strongly exothermic. It should not be mixed with reducing agents or easily oxidizable organic compounds.

**NOTE:** Do not store AV-101 and AV-102 in the same proximity. When AV-101 and AV-102 come into contact the reaction will produce an incendiary situation with very thick smoke with the possibility of fire.

### MSDS

Available by request, or download at [www.avantigrout.com/MSDS](http://www.avantigrout.com/MSDS)

### Safety

Product should be used only in well ventilated areas in order to keep the vapor concentration low. Eye contact and repeated skin contact should be avoided. Normal protective clothing such as gloves and goggles are recommended. A self-contained breathing apparatus should be worn in confined spaces where there is little ventilation and vapors are likely to be high.

Ammonium persulfate and its solution does not present any serious health hazards. However, persulfate allergy is not uncommon as a skin rash which disappears when further contact is avoided. Wearing rubber gloves is suggested; prolonged contact of any persulfate with the skin should be avoided. After contact, water should be used to cleanse the skin.

### First Aid

**Eyes:** Immediately flush eyes with water for 15 minutes. Get medical attention.

**Skin:** Wash affected area with soap and water. Remove contaminated clothing.

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** Drink 2 glasses of water. Call a physician.

Note: Never give anything by mouth to an unconscious or convulsing person.

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