

**ZEON CHEMICALS L.P.  
RAW MATERIAL SPECIFICATION - PERMANENT**

**MATERIAL:** MAGNESIUM SULFATE SOLUTION 27%

**ZEON CODE NO.** \*1080

**SYNONYMS:** LIQUID EPSOM SALTS

**CAS NO.** 7487-88-9  
7732-18-5

**UNIFORMITY**

Seller expressly warrants that all materials furnished to Zeon will conform to the properties and limits as listed herein using the specified testing procedures. In addition, Seller warrants that all materials will conform to all of the properties and limits of Seller's product specifications\* even though such properties may not be listed on Zeon specifications.

Seller shall notify Zeon immediately in the event of any change in manufacturing location, basic process technology or Seller's product specification. Zeon shall have the right to require a sample of material produced under changed conditions for approval tests before shipment of material.

Zeon will, upon notice to Seller, hold any rejected material pending receipt of Seller's instructions for disposition of such materials, and upon Seller's failure to furnish Zeon with such instructions within the time agreed upon between Zeon and Seller (during rejection notification process), Zeon may return such material to Seller at Seller's expense.

\*Seller's product specification references established sales specification.

PROPERTIES	TARGETS	LIMITS	PROCEDURE NO.*
1. Assay ( $MgSO_4$ ), Wt. %		36.5-27.5	5109
2. Chlorides (as Cl), ppm		100.0 Max.	5111
3. Iron (as Fe), ppm		10.0 Max.	6120
4. Total Insolubles, Wt. %		.05 Max.	5229
5. pH		6.0-7.5	92-B
6. Contamination		Free of all visible contamination	Visual
General: Material must be free of contamination and foreign materials.			
*Test Procedures must be made available upon request.			

**CERTIFICATE OF ANALYSIS**

Seller to furnish test results for all the above listed properties. This information must be received by the Quality Control Laboratory Supervisor of the Zeon plant involved prior to or at the time of material arrival.

<b>ISSUE DATE:</b> January 25, 2002	<b>Vendor Name:</b> GILES CHEMICAL
<b>SUPERSEDES:</b> December 11, 1992	<b>Location:</b> Waynesville, NC
<b>ZEON CHEMICALS L.P.</b>	<b>Manufacturer Name:</b> GILES CHEMICAL
<b>4100 BELLS LANE</b>	<b>Location:</b> Waynesville, NC
<b>LOUISVILLE, KY 40232-4320</b>	<b>AUTHORIZED NAME:</b> <u>Steve Fowler</u> (Print or Type)
<b>CONTACT:</b>	<b>AUTHORIZED SIGNATURE:</b> <u>(Signature on File)</u>
<b>QC Assistant</b>	<b>TITLE:</b> <u>Sales Manager</u>
<b>(502) 775-7631</b>	<b>DATE:</b> <u>December 27, 2001</u>
<b>(502) 775-7628</b>	