

# ChemGrout®

"Equipment for Grouting Since 1969"

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## Material Testing Results

Date: August 8, 2000

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**Manufacturer:** Vesuvius - Buffalo  
661 Willet Road  
Buffalo, NY 14218

**Contact:** Dennis Heuer  
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**Material:** Basilite 75

**Lot #** N/A

**Material Application:** Ladle maintenance lining for "Gray Iron & Steel"

**Mfg. Plant:** Maple Grove, OH

**Std. Bag Weight:** 50 #

**Testing Conditions:** Outside Temperature: 82.5°F

**Humidity:** 61%

**Equipment Used:** Model: CG570  
Mixer: Paddle

**Pump:** 2TJ6 Progressing Cavity  
**Power:** Hydraulic

**Std. Mix Ratios:** 18 lbs. water per bag

**Water Temp:** 77.8 °F

**Batching Method:** Quantity Material: 198 lbs.

**Quantity Water:** 54 lbs

**Mixing Time:** 70-80 Seconds

**Batch Temp:** 86.7 °F

**Specific Gravity:** SG = 1.96

**Flow Cone** N/A Seconds

**Pumping Method:** Recirculated through hose, recorded pressures at various flow rates.

<b>Flow Rate/Pressure:</b>	Flow Rate	Pressure	Flow Rate	Pressure
Hose (12.5' Long x 1 1/4" I.D.)	5.4 GPM	13 PSI	GPM	PSI
Hose ( )	8.4 GPM	18 PSI	GPM	PSI
Hose ( )	9.4 GPM	21 PSI	GPM	PSI
Hose ( )	10.7 GPM	26 PSI	GPM	PSI
Hose ( )	16.1 GPM	40 PSI	GPM	PSI
Hose ( )	18.8 GPM	55 PSI	GPM	PSI
Hose ( )	21.0 GPM	65 PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI
Hose ( )	GPM	PSI	GPM	PSI

**Observations:** Batch was too thin at Std. mix ratio, added 48 lbs. more material, sprayed good mixed easy, very sandy product

**Results:** ChemGrout, Inc. rates the pumpability of this product as a 7 on a scale of 10, with 10 being the easiest. ChemGrout, Inc. recommends a CG050 pump or higher.