

**CE-240**  
**11/13 Supersedes 09/99**

### **PENNCHEM<sup>®</sup> GROUT**

#### **DESCRIPTION**

PENNCHEM Grout is a three-component, vinyl ester based grouting compound. It is designed for grouting pumps, machinery bases, and other equipment where it is vital to retain exact alignment in chemical service applications where oxidizing or bleaching chemistry precludes the use of conventional epoxy based grouting compounds. PENNCHEM Grout is ideal for applications which require a low shrinkage, high strength grout where load, impact, vibration, and chemical resistance are of concern. **For complete installation instructions, consult Corrosion Engineering installation specification [CES-360](#).**

#### **AREAS OF USE**

PENNCHEM Grout can be used in grouting many types of reciprocating heavy equipment and/or where heavy loads, high impact, and vibrations are factors. These include:

- Anchor bolts
- Compressors
- Generators
- Pumps
- Mixers
- Ball mills
- Centrifuges
- Pedestals
- Conveyors
- Leveling blocks
- Crushers
- Building columns
- Blowers
- Forging Machines
- Mixers
- Filters
- Fans
- Milling machines
- Stamping machines
- Packaging machines
- Paper mill machines

#### **OUTSTANDING FEATURES**

- Components are proportioned for easy mixing
- Resistant to strong oxidizing agents and acid bleach solutions
- High physical strength, good bond to concrete and metal surfaces
- Excellent vibration resistance
- High impact strength
- Good resistance to a wide variety of chemicals and oils.
- Excellent flow characteristics

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	PENNCHEM GROUT
Color	Gray
Working Life (Hours)	1 hour @ 70°F
Density (ASTM C-138)	135 lbs/cu. ft.
Compressive Strength (ASTM C-579) (28 days)	>13,500 psi (93 MPa)
Tensile Strength (ASTM C-370) (28 days)	>1,800 psi (12.4 MPa)
Flexural Strength	>3,300 psi (23 MPa)
Wet Absorption, % (ASTM C-413) (48 hour immersion) 28 Day cured sample	0.4
Linear Shrinkage, % (ASTM C-531)	0.12
Coefficient of Thermal Expansion (75°F-210°F) (ASTM C-531)	16 x 10 <sup>-6</sup> /°F
Modulus of Elasticity (ASTM C-580) (28 Days)	1.34 x 10 <sup>6</sup>

**ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE**

COMPONENT	CODE	PACKAGING	YIELD
Vinyl Ester Concrete Resin	19510	43 lb (5 gal) pail	A 3.0 (404 lb) cubic foot unit consists of 6 x 60 lb bags of filler, 1 x 43 lb pail resin, and 1 x 0.75 lb bottle hardener.  <b>Note:</b> PENNCHEM Grout packaging is pre-proportioned as outlined above to provide a flowable consistency suitable for most grouting applications. It is possible to vary the filler loading on site to accommodate differing clearance requirements, but caution must be exercised to insure the mixture is not too wet (excessive shrinkage) nor too dry (difficult to place). Consult Corrosion Engineering for specific details.
CHP Hardener	19552	0.75 lb (0.7 pint) bottle	
TUFCHEM Grout Filler	21931	60 lb bag	

**SAFETY PRECAUTIONS / DISCLAIMER**

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and [material safety data sheets](#) before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.



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