



This Bulletin supercedes all previous Product Bulletins of the same number

GENERAL DESCRIPTION

ALPHATEC 130 is a three-component polymer grout system consisting of modified epoxy resin, chemical hardener, and blended aggregate. ALPHATEC 130 is specially formulated for high temperature operating environments, and is widely used for turbines, blowers, deepwell pumps, heat exchangers, and other hot machinery.

FEATURES

- | | |
|------------------------------------|------------------------------|
| 1. Operating temperatures to 150°C | 3. Minimal shrinkage on cure |
| 2. Ambient temperature curing | 4. Low thermal coefficient |

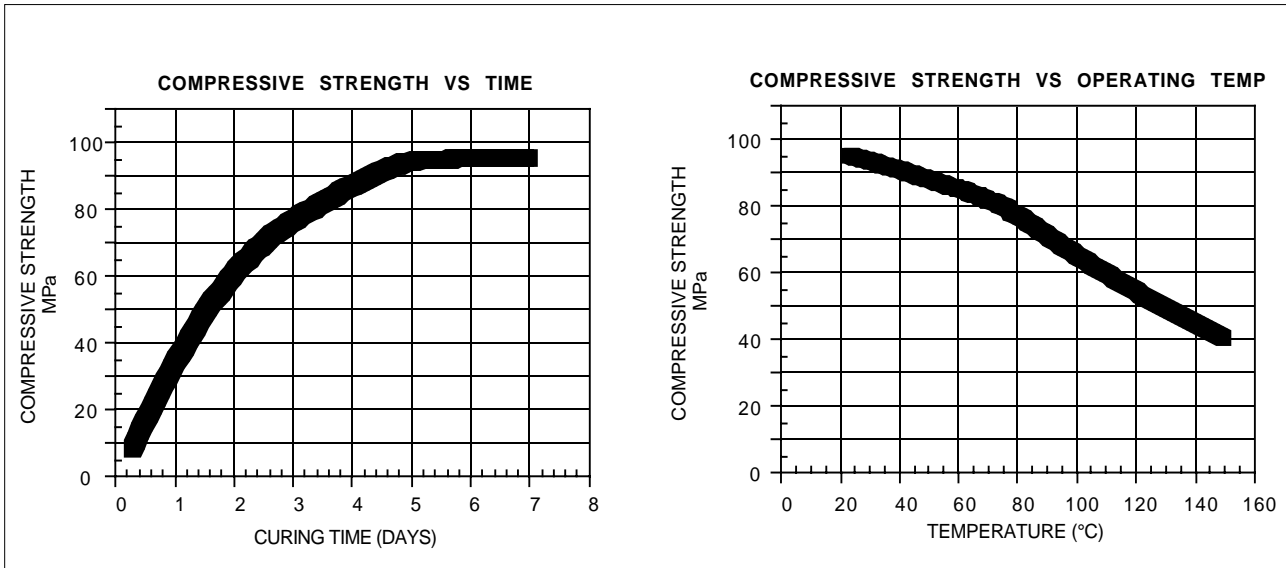
RESIN SYSTEM PROPERTIES

	Liquid	Hardener	Mixed
Viscosity at 23°C (cps):	9,500	65	4,000
Specific Gravity:	1.2	0.94	1.11
Mixing Ratio (by wt):	100	39	
Mixing Ratio (by vol):	100	50	
Working Time at: (mixed with aggregate)	Temp 23°C	Time 60	
Shrinkage on cure (with aggregate)	0.00022 (mm/mm)		

CURED PROPERTIES

[All test data at 23°C (74°F) unless otherwise stated.]	SI MPa (GPa)	Metric kg/cm²	Imperial psi
Compressive Strength (ASTM C 579 B):	95	970	13,800
Compressive Modulus (ASTM C 579 B):	(10.8)	110,000	1,560,000
Compressive Strength (ASTM C 579 B) @ 150°C:	38.2	390	5,500
Compressive Modulus (ASTM C 579 B) @ 150°C:	(3.3)	34,000	483,500
Flexural Strength (ASTM C 580):	16.6	170	2,400
Tensile Bond Strength (to Steel):	13.1	134	1,900
Shear Bond Strength (to Steel):	13.7	140	1,900
Coefficient of Expansion (ASTM C 531):		cm/cm 0.000028/°C	in/in 0.000016/°F

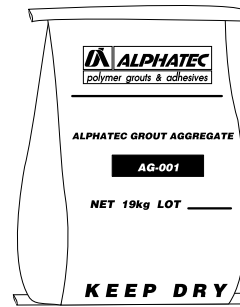
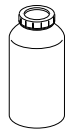
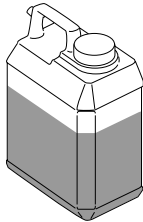
GRAPHS



PACKAGING

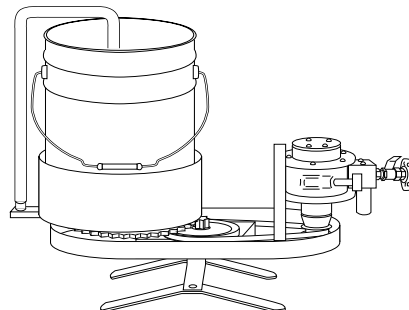
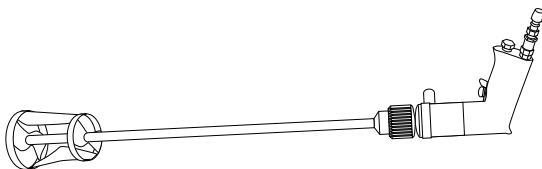
ALPHATEC 130 is packed in a unit yielding 10 liters. The components are pre-measured, and should normally be mixed as a unit. Aggregate loading can be adjusted to some extent to obtain optimum flowability at the jobsite.

- Base: 1 x 2.16 kg in 4 liter plastic bottle
- Hardener: 1 x 0.85 kg in 1 liter plastic bottle
- Aggregate: 1 x 19.0 kg in multi-wall paper bag

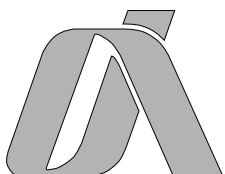


MIXING & HANDLING

Pour full amount of liquid and hardener into a clean pail, and mix for at least 1 minute, with an air or electric-powered Jiffy mixer operated at 300 - 500 rpm. Add aggregate slowly. Use full amount of aggregate, unless site conditions are very cool, when a small amount may be withheld to improve flowability. Mix only until all particles are coated with resin. See "General Instructions for the Use & Handling of Polymer Grouts" for further details.



In the interests of continually upgrading and improving our products, Alphatec Engineering reserves the right to change these specifications without notice.



Alphatec Holdings Pte Ltd 3 Shenton Way, Singapore.

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