

## Filter Cores for *Dynamic HPHT*<sup>®</sup> Filtration System

The *Fann Model 90 Dynamic HPHT*<sup>®</sup> filtration system utilizes special Filter Cores designed by Fann engineers for conducting filter cake formation and permeability analysis. The filter medium is a thick-walled cylinder with rock-like characteristics to simulate the build-up of filter cake on the formation thus providing more accurate filtration measurements. The entire internal length is subjected to pressurized fluid (sample). Filtrate flows through the core radially from the inside to the outside. The filter medium is available in varying porosities and permeabilities to simulate down-hole formations.



### Ceramic Filter Core Specifications

Part Number	Porosity (Mean Pore Diameter)	Permeability (Air)
210545	5 micron	750 milli-darcy
210546	10 micron	950 milli-darcy
210547	20 micron	2.8 darcy
213483	35 micron	5.5 darcy
210548	60 micron	6.7 darcy
210549	90 micron	13.5 darcy
210550	150 micron	26.5 darcy
210551	190 micron	75 darcy



Order Filter Cores by the Part Number shown in the chart above.

Filter Cores are supplied in boxes of 10 cores. Each box contains 10 cores of the same Porosity.

#### Nominal Core Dimensions:

Inside Diameter = 1.014 +/- 0.005  
 Outside Diameter = 1.510 +/- 0.020  
 Length = 1.114 +/- 0.005

#### Maximum Recommended Values

Mud weight, lb/gal (sg)	Rate, mL/min	CDI
9-12 (1.08-1.44)	0.22	25
12-15 (1.44-1.80)	0.18	20
15 or greater (1.80 +)	0.14	16

*Fann Instrument Company offers a complete line of Instrumentation for use in testing drilling fluids in accordance with the following American Petroleum Institute publications:*

**API Recommended Practice 13B-1, ANSI/API 13B-1/ISO 10414-1,  
 API Recommended Practice 13B-2, & API Specification 13A**