

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

Sample No. 75GA2
 Sp. gr. 2.79 gm/cc
 Mass 20.5330 gm
 Volume 7.558 cc
 Total porosity 2.28
 Date 4/30/75
 Technician JMG
 Effective Porosity 1.63 % at 2000 psi

10.402
~~2.844~~
 7.558

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.032	.026				
4	.052	.043				
6	.067	.054				
10	.084	.069				
20	.108	.085				
30	.120	.093				
40	.132	.097				
60	.150	.102				
100	.174	.111				
200	.204	.122				
300	.229	.134				
400	.242	.145				
600	.270	.163				
800	.297	.183				
1200	.342	.225				
1600	.384	.264				
2000	.427	.304				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTIONSample No. 75 GA 3Sp. gr. 2.81 gm/ccMass 9.9286 gmVolume 5.133 cc7.9642.8315.133Total porosity 31.2Date 4/30/75Technician JMGEffective Porosity 28.1 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
1	.013	.008				
2	.037	.028				
4	.075	.051				
6	.098	.063				
8	.114	.072				
12	.142	.083				
16	.168	.088				
20	.189	.092				
30	.230	.100				
40	.270	.104				
60	.363	.112				
80	.454	.116				
120	.651	.123				
200	.990	.133				
300	1.259	.145				
400	1.388	.154				
600	1.506	.176				
800	1.566	.193				
1200	1.639	.231				
1600	1.694	.271				
2000	1.751	.311				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

Sample No. 75-6A4
 Sp. gr. 2.73 gm/cc
 Mass 12.0200 gm
 Volume 6.525 cc
 Total porosity 32.5
 Date 4/30/75
 Technician JMG

9.365
~~2.840~~
 6.525

Effective Porosity 30.3 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.027	.027				
4	.052	.045				
8	.080	.064				
12	.102	.075				
20	.130	.089				
30	.150	.094				
40	.161	.100				
60	.191	.107				
100	.312	.113				
200	1.120	.128				
300	1.543	.140				
400	1.757	.150				
600	2.003	.170				
800	2.155	.191				
1200	2.300	.231				
1600	2.365	.272				
2000	2.422	.312				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTIONSample No. 75 GA 5Sp. gr. 2.81 gm/ccTotal porosity 13.2Mass 13.1835 gmDate 5/1/75Volume 5.403 cc
$$\begin{array}{r} 8.248 \\ 2.845 \\ \hline 5.403 \end{array}$$
Technician RgEffective Porosity 8.68 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.031	.026				
4	.060	.044				
6	.096	.055				
8	.145	.063				
12	.214	.072				
16	.265	.078				
20	.295	.082				
30	.344	.090				
40	.370	.095				
60	.405	.101				
80	.431	.105				
100	.447	.108				
160	.485	.116				
200	.504	.122				
300	.540	.133				
400	.560	.143				
600	.594	.164				
800	.628	.183				
1000	.654	.202				
1500	.716	.251				
2000	.770	.301				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

78°

Sample No. 75 GA6
 Sp. gr. 2.71 gm/cc
 Mass 16.8251 gm
 Volume 8.946 cc
 Total porosity 30.6
 Date 5/1/75
 Technician Rg
 Effective Porosity 16.6 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.421	.023				
4	.110	.044				
6	.369	.057				
8	.496	.066				
12	.623	.076				
16	.698	.086				
22	.763	.090				
30	.824	.098				
40	.869	.103				
60	.936	.111				
80	.976	.116				
100	1.009	.120				
150	1.064	.127				
200	1.105	.134				
300	1.163	.146				
400	1.220	.156				
600	1.327	.177				
800	1.430	.196				
1000	1.518	.216				
1600	1.705	.275				
2000	1.803	.315				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

P:FB

Sample No. 75 GA 7
 Sp. gr. 2.72 gm/cc
 Mass 11.4638 gm
 Volume 6.245 cc
 Total porosity 32.5
 Date 5/1/75
 Technician Rg
 Effective Porosity 30.0 % at 2000 psi

9.984
 2.839
6.245

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.358	.021				
4	.713	.038				
6	.950	.049				
8	1.094	.056				
12	1.235	.062				
16	1.301	.073				
22	1.360	.079				
30	1.406	.084				
40	1.441	.089				
60	1.487	.095				
80	1.516	.100				
100	1.538	.104				
150	1.580	.111				
200	1.610	.118				
300	1.655	.130				
400	1.696	.140				
600	1.786	.160				
800	1.865	.179				
1000	1.936	.198				
1600	2.104	.259				
2000	2.190	.315				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTIONSample No. 75GA8Sp. gr. 2.71 gm/ccMass 10.699 gmVolume 5.912 cc8.7152.8035.912Total porosity 33.2Date 5/22/75Technician JMBEffective Porosity 30.2% at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
1	.013	.005				
2	.061	.028				
3	.167	.039				
4	.350	.051				
6	.690	.066				
8	.860	.077				
12	.991	.089				
16	1.069	.098				
20	1.119	.102				
30	1.203	.111				
40	1.255	.116				
60	1.320	.122				
100	1.390	.131				
200	1.474	.146				
300	1.524	.158				
400	1.571	.169				
600	1.662	.191				
800	1.762	.211				
1200	1.912	.253				
1600	2.033	.293				
2000	2.122	.335				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

Sample No. 756A11

Sp. gr. 2.72 gm/cc

Mass 11.768 gm

Volume 6.951 cc

9.739
2.788
6.951

Total porosity 37.8

Date 5/22/75

Technician JMG

Effective Porosity 37.6 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.033	.023				
4	.080	.031				
6	.177	.053				
8	.563	.062				
10	.617	.070				
12	.988	.076				
16	1.200	.083				
20	1.327	.088				
30	1.525	.095				
40	1.630	.100				
60	1.772	.107				
80	1.863	.112				
100	1.928	.115				
200	2.120	.129				
300	2.226	.140				
400	2.302	.152				
600	2.420	.172				
800	2.510	.194				
1200	2.630	.237				
1600	2.720	.278				
2000	2.787	.315				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

Sample No. 75GA 10
 Sp. gr. 2.75 gm/cc
 Mass 12.2082 gm
 Volume 7.072 cc
 Total porosity 37.2
 Date 5/22/75
 Technician JMG
 Effective Porosity 34.6 % at 2000 psi

9.863
 2.791
 7.072

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.047	.018				
4	.106	.036				
6	.352	.047				
8	.695	.056				
10	.960	.062				
12	1.133	.067				
16	1.358	.074				
20	1.482	.080				
30	1.661	.088				
40	1.762	.092				
60	1.891	.099				
80	1.965	.103				
100	2.012	.106				
200	2.160	.110				
300	2.250	.132				
400	2.312	.141				
600	2.414	.162				
800	2.492	.181				
1200	2.602	.220				
1600	2.682	.260				
2000	2.746	.300				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

Sample No. 756A 9
 Sp. gr. 2.73 gm/cc
 Mass 13.816 gm
 Volume 7.761 cc
 Total porosity 34.8
 Date 5/22/75
 Technician JMB

Effective Porosity 32.1 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.032	.021				
4	.063	.038				
6	.190	.050				
8	.412	.060				
12	.747	.070				
16	.968	.077				
20	1.090	.080				
30	1.281	.088				
40	1.395	.092				
60	1.547	.098				
100	1.720	.107				
200	1.942	.121				
300	2.070	.131				
400	2.170	.142				
600	2.332	.162				
800	2.452	.182				
1200	2.615	.223				
1600	2.716	.264				
2000	2.793	.304				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

Sample No. 75GA12

Sp. gr. 2.71 gm/cc

Mass 14.0092 gm

Volume 9.189 cc

11.987
2.798
 9.189

Total porosity 43.7

Date 5/23/75

Technician smg

Effective Porosity 34.8 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.033	.015				
4	.063	.033				
6	.128	.042				
8	.146	.050				
12	.432	.059				
16	.632	.065				
20	.817	.069				
30	1.012	.077				
40	1.203	.080				
60	1.393	.086				
80	1.580	.090				
100	1.767	.093				
150	1.958	.102				
200	2.151	.108				
300	2.340	.119				
400	2.523	.130				
600	2.707	.150				
800	2.909	.173				
1200	3.106	.215				
1600	3.295	.252				
2000	3.489	.287				

Temp.

EFFECTIVE POROSITY AND PORE-SIZE DISTRIBUTION

Sample No. 75GA13
 Sp. gr. 2.70 gm/cc
 Mass 12.0762 gm
 Volume 7.707 cc
 Total porosity 42.0
 Date 5/23/75
 Technician JMB
 Effective Porosity 40.6 % at 2000 psi

Applied Pressure (psi)	Volume Reading (cc)	Mercury Compression (cc)	Corrected Volume (cc)	Effective Porosity (%)	Cumulative Pore Dist. (%)	Pore Diameter (microns)
2	.032	.013				
4	.063	.026				
8	.1373	.042				
12	.1753	.050				
16	.1010	.056				
20	1.192	.060				
30	1.506	.067				
40	1.702	.071				
60	1.920	.077				
80	2.073	.082				
100	2.176	.085				
150	2.355	.092				
200	2.482	.100				
300	2.651	.110				
400	2.762	.121				
600	2.935	.142				
800	3.065	.161				
1200	3.210	.203				
1600	3.300	.243				
2000	3.375	.284				

Temp.