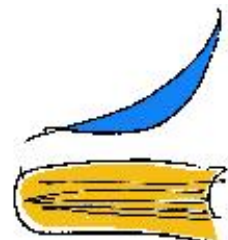


# **Pressuremeter Test Analysis Report (ASTM D4719)**

## **PEYSANJ 2 geotechnical engineering software**

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## Company name

Project : تراکم دینا میکی مجتمع پتروشیمی عسلویه  
Client : شرکت مدیریت توسعه صنایع پتروشیمی  
Location : Z4-1-BH5  
Code : -



Depth (m) : 2                      سطح آب (متر) :-  
v : 0.35                              Probe type : BX

### Test data

Pressure (kg/cm2)	Volume (cm3)
0	0
1	97
2	145
3	167
5	207
7	233
9	252
11	265
13	277
15	287
17	297
19	307
21	320
23	332
25	343
27	355
29	368
31	395
33	417

### Calibration data

Pressure (kg/cm2)	Volume (cm3)
0	0
1	100
2	200
3	320



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### Data Correction (Based On Calibration Curve)

For P=0 kg/cm2 :  $P_{corr} = 0 - 0 + 200 * 0.001 = 0$  kg/cm2  
For P=1 kg/cm2 :  $P_{corr} = 1 - 0.97 + 200 * 0.001 = 0.23$  kg/cm2  
For P=2 kg/cm2 :  $P_{corr} = 2 - 1.45 + 200 * 0.001 = 0.75$  kg/cm2  
For P=3 kg/cm2 :  $P_{corr} = 3 - 1.67 + 200 * 0.001 = 1.53$  kg/cm2  
For P=5 kg/cm2 :  $P_{corr} = 5 - 2.06 + 200 * 0.001 = 3.14$  kg/cm2  
For P=7 kg/cm2 :  $P_{corr} = 7 - 2.28 + 200 * 0.001 = 4.92$  kg/cm2  
For P=9 kg/cm2 :  $P_{corr} = 9 - 2.43 + 200 * 0.001 = 6.77$  kg/cm2  
For P=11 kg/cm2 :  $P_{corr} = 11 - 2.54 + 200 * 0.001 = 8.66$  kg/cm2  
For P=13 kg/cm2 :  $P_{corr} = 13 - 2.64 + 200 * 0.001 = 10.56$  kg/cm2  
For P=15 kg/cm2 :  $P_{corr} = 15 - 2.72 + 200 * 0.001 = 12.47$  kg/cm2  
For P=17 kg/cm2 :  $P_{corr} = 17 - 2.81 + 200 * 0.001 = 14.39$  kg/cm2  
For P=19 kg/cm2 :  $P_{corr} = 19 - 2.89 + 200 * 0.001 = 16.31$  kg/cm2  
For P=21 kg/cm2 :  $P_{corr} = 21 - 3 + 200 * 0.001 = 18.2$  kg/cm2  
For P=23 kg/cm2 :  $P_{corr} = 23 - 3.1 + 200 * 0.001 = 20.1$  kg/cm2  
For P=25 kg/cm2 :  $P_{corr} = 25 - 3.19 + 200 * 0.001 = 22.01$  kg/cm2  
For P=27 kg/cm2 :  $P_{corr} = 27 - 3.29 + 200 * 0.001 = 23.91$  kg/cm2  
For P=29 kg/cm2 :  $P_{corr} = 29 - 3.4 + 200 * 0.001 = 25.8$  kg/cm2  
For P=31 kg/cm2 :  $P_{corr} = 31 - 3.62 + 200 * 0.001 = 27.58$  kg/cm2  
For P=33 kg/cm2 :  $P_{corr} = 33 - 3.81 + 200 * 0.001 = 29.39$  kg/cm2

### Elastic Part Determination

Best Line With 3 Points (9 to 11) Specific Error = 2148.457  
Best Line With 4 Points (9 to 12) Specific Error = 1937.855  
Best Line With 5 Points (8 to 12) Specific Error = 1880.443  
Best Line With 6 Points (7 to 12) Specific Error = 1861.127  
Best Line With 7 Points (7 to 13) Specific Error = 1900.344  
Best Line With 8 Points (7 to 14) Specific Error = 1910.886  
Best Line With 9 Points (7 to 15) Specific Error = 1903.159  
Best Line With 10 Points (7 to 16) Specific Error = 1923.885  
Best Line With 11 Points (7 to 17) Specific Error = 1965.518  
Best Line With 12 Points (6 to 17) Specific Error = 2026.55  
Best Line With 13 Points (5 to 17) Specific Error = 2155.37  
Best Line With 14 Points (4 to 17) Specific Error = 2412.364  
Best Line With 15 Points (3 to 17) Specific Error = 2493.462  
Minimum Error Found For Elastic Line : From Point 7 To Point 12  
Line Slope =  $(P_2 - P_1) / (V_2 - V_1) = (16.31 - 6.77) / (312 - 257) = 0.17$   
 $V_m = (V_1 + V_2) / 2 = (257 + 312) / 2 = 284.5$  cm<sup>3</sup>  
 $E_m = 2(1 + \nu) * (V_o + V_m) * \{(P_2 - P_1) / (V_2 - V_1)\} = 2(1 + 0.35) * (535 + 284.5) * 0.17 = 383.86$  kg/cm<sup>2</sup>

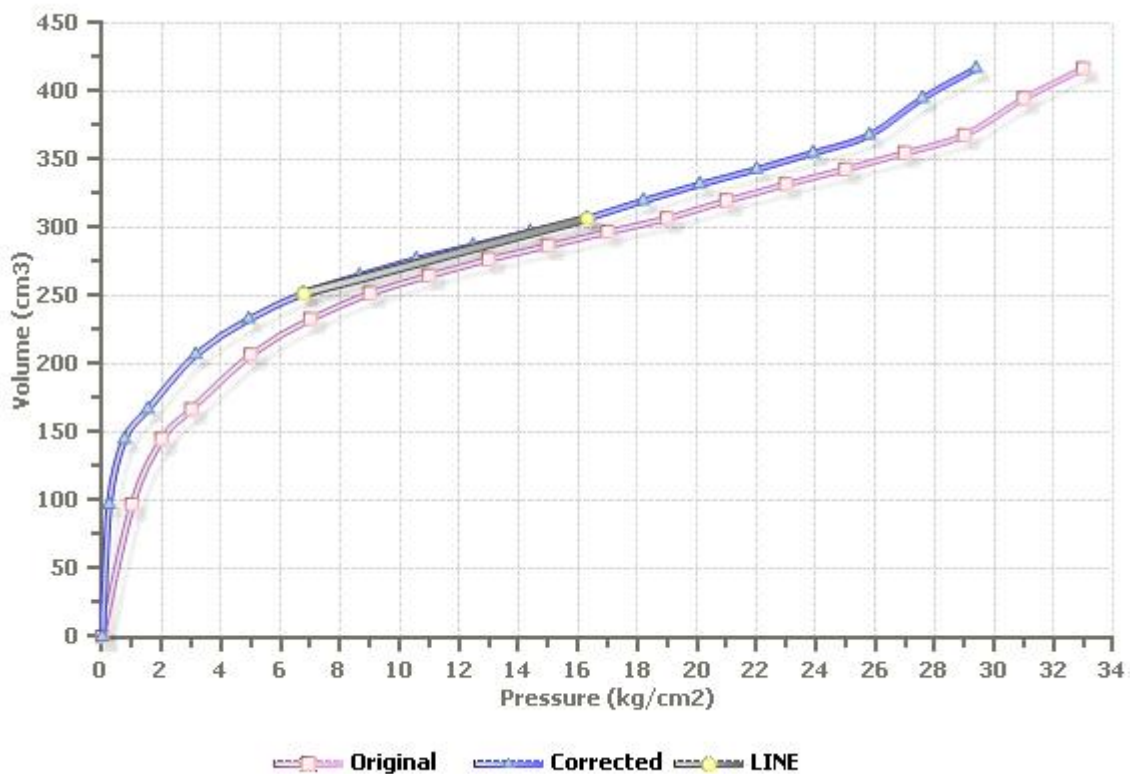


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## Dracsirometer Test Curves



## Calibration Curves

