



Correction to: Estimating the brittleness values of carbonated rocks with Shore, Schmidt, and Leeb hardness values

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All the corrected versions of tables and the missing reference are given below.

The original article has been published inadvertently with some errors in tables (Tables 2, 3, 4) and a missing reference.

Table 2 Rocks used in the study

| Sample code | Origin | Region |
|--------------------|-------------|-----------|
| Cb-1 ^a | Sedimentary | Antalya |
| Cb-2 ^a | Sedimentary | Antalya |
| Cb-3 ^a | Sedimentary | Antalya |
| Cb-4 ^a | Sedimentary | Antalya |
| Cb-5 ^a | Sedimentary | Isparta |
| Cb-6 ^a | Sedimentary | Isparta |
| Cb-7 ^a | Sedimentary | Bursa |
| Cb-8 ^a | Sedimentary | Kastamonu |
| Cb-9 ^a | Sedimentary | Burdur |
| Cb-10 ^a | Sedimentary | Bursa |
| Cb-11 ^a | Sedimentary | Isparta |
| Cb-12 ^a | Sedimentary | Isparta |

^aAkbay et al. (2021)

The original article can be found online at <https://doi.org/10.1007/s12665-022-10332-w>.

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Table 3 The physical and mechanical properties of rocks used in the study

| Sample code | d_o (g/cm ³) | UVW (%) | WAW (%) | AP (%) | TP (%) | V_p (m/s) | σ_c (MPa) | σ_t (MPa) |
|-------------|----------------------------|---------|---------|--------|--------------------|-------------------|--------------------|------------------|
| Cb-1 | 2.680 | 2.408 | 3.48 | 8.37 | 7.09 ^a | 4202 ^a | 75.3 ^b | 3.0 ^b |
| Cb-2 | 2.712 | 2.410 | 3.46 | 8.34 | 11.98 ^a | 4270 ^a | 76.4 ^b | 3.0 ^b |
| Cb-3 | 2.740 | 2.376 | 3.89 | 9.25 | 12.96 ^a | 4305 ^a | 80.1 ^b | 3.6 ^b |
| Cb-4 | 2.717 | 2.396 | 3.51 | 8.39 | 12.33 ^a | 4295 ^a | 77.7 ^b | 3.8 ^b |
| Cb-5 | 2.773 | 2.746 | 0.13 | 0.36 | 0.97 ^a | 6376 ^a | 160.5 ^b | 6.0 ^b |
| Cb-6 | 2.737 | 2.706 | 0.05 | 0.15 | 1.13 ^a | 6281 ^a | 138.4 ^b | 6.7 ^b |
| Cb-7 | 2.735 | 2.695 | 0.10 | 0.26 | 1.45 ^a | 6306 ^a | 146.9 ^b | 5.7 ^b |
| Cb-8 | 2.735 | 2.709 | 0.08 | 0.20 | 1.08 ^a | 6422 ^a | 116.2 ^b | 7.0 ^b |
| Cb-9 | 2.718 | 2.699 | 0.17 | 0.45 | 0.69 ^a | 6237 ^a | 113.1 ^b | 8.0 ^b |
| Cb-10 | 2.732 | 2.701 | 0.14 | 0.39 | 1.11 ^a | 6103 ^a | 113.6 ^b | 7.4 ^b |
| Cb-11 | 2.871 | 2.719 | 1.29 | 3.48 | 5.29 ^a | 3954 ^a | 118.7 ^b | 5.7 ^b |
| Cb-12 | 2.875 | 2.694 | 1.66 | 4.46 | 6.29 ^a | 3217 ^a | 108.7 ^b | 5.6 ^b |

d_o density, UVW unit volume weight, WAW water absorption percent by weight, AP apparent porosity, TP total porosity, V_p seismic ultrasonic velocity, σ_c uniaxial compressive strength, σ_t Brazilian tensile strength

^aAkbay and Ekincioğlu (2021)

^bAkbay et al. (2021)

Table 4 Average hardness values of the rocks used in the study measured with different devices

| Sample code | H_{S-C2} | | H_{S-L} | | H_{L-D} | |
|-------------|--------------------|-------------------|-----------|----------|-----------|----------|
| | Avg | Std. Dev | Avg | Std. Dev | Avg | Std. Dev |
| Cb-1 | 30.18 ^a | 5.20 ^a | 37.8 | 3.34 | 485.0 | 25.7 |
| Cb-2 | 30.48 ^a | 5.50 ^a | 37.2 | 3.10 | 521.9 | 42.5 |
| Cb-3 | 40.13 ^a | 5.10 ^a | 34.3 | 3.40 | 492.3 | 32.1 |
| Cb-4 | 42.2 ^a | 4.60 ^a | 34.3 | 2.75 | 477.5 | 29.6 |
| Cb-5 | 54.98 ^a | 3.40 ^a | 44.1 | 3.70 | 642.3 | 33.4 |
| Cb-6 | 55.15 ^a | 6.20 ^a | 45.9 | 3.46 | 654.5 | 28.1 |
| Cb-7 | 58.93 ^a | 4.90 ^a | 45.6 | 4.81 | 659.0 | 21.7 |
| Cb-8 | 60.1 ^a | 2.80 ^a | 46.6 | 3.48 | 642.5 | 41.2 |
| Cb-9 | 58.98 ^a | 3.50 ^a | 44.2 | 2.97 | 644.8 | 39.5 |
| Cb-10 | 60.45 ^a | 5.20 ^a | 47.3 | 3.58 | 667.8 | 34.1 |
| Cb-11 | 49.73 ^a | 5.30 ^a | 38.4 | 3.71 | 560.2 | 29.7 |
| Cb-12 | 41.1 ^a | 6.40 ^a | 39.7 | 4.00 | 579.7 | 30.1 |

H_{S-C2} shore hardness, H_{S-L} Schmidt hardness, H_{L-D} Leeb hardness, Avg. average, Std. Dev. standard deviation

^aAkbay et al. (2021)

Reference

Akbay D, Ekincioğlu G (2021) Usability of digital shore hardness devices in estimation of physical and mechanical properties of rocks. *J Min Sci* 57:696–702

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