

# New Products: Additional Synthetic Soils

## Chalky and clay synthetic soil standards

Elemental Microanalysis has added to its new range of synthetic soils, made from pure mineral and chemical ingredients, blended to exactly match the elemental make-up of natural soils. The synthetic process provides multiple benefits to customers, including ingredient composition tailored to the needs of the scientific community.

The newly introduced soil standards are a chalky soil standard (B2238), and a clay soil standard (B2236). The table below summarizes the synthetic soils range so far.

Additional synthetic soil standards (sandy, peaty, silty) are under development at Elemental to better mimic the range of natural soils previously collected, processed, and produced.

Creating synthetic soils leads to improved consistency across consecutive batches, compared to collected soils. Synthetic soils are also not subject to the same export legislation and control as irradiated natural soil, which simplifies import restrictions for hassle-free worldwide shipping.



Synthetic soil, chalky, B2238

Synthetic soil, clay, B2236

These products offer the same high quality and value for money that is typical of Elemental Microanalysis' entire product range.

Available to order from our ISO 9001 factory online, by email, telephone or fax. Elemental Microanalysis offers extensive knowledge of analysis, over 45 years of experience and a worldwide reputation for excellence.

| Part no               | Description                                  | C (%) | N (%) | S (%)   | TIC (%) | TOC (%) |
|-----------------------|--|-------|-------|---------|---------|---------|
| <a href="#">B2230</a> | Synthetic soil (high organic content) 30 g   | 7.48  | 0.53  | 0.061   | (0.32)  | (7.16)  |
| <a href="#">B2238</a> | Synthetic soil (chalky) 30 g                 | 5.47  | 0.37  |         | (2.27)  | (3.20)  |
| <a href="#">B2237</a> | Synthetic soil (loamy) 30 g                  | 2.75  | 0.26  | (0.068) | (0.16)  | (2.59)  |
| <a href="#">B2233</a> | Synthetic soil (medium organic content) 30 g | 2.49  | 0.16  | 0.037   | (0.15)  | (2.34)  |
| <a href="#">B2236</a> | Synthetic soil (clay) 30 g                   | 2.42  | 0.25  | 0.051   | (0.26)  | (2.16)  |
| <a href="#">B2231</a> | Synthetic soil (low organic content) 30 g    | 1.42  | 0.100 | 0.032   | (0.13)  | (1.29)  |
| <a href="#">B2189</a> | Synthetic soil standard (mineral) 30 g       | 0.28  | 0.027 |         |         |         |

Bracketed figures are not certified values and are provided for information only.

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