



We're NHBC Accepted



British Sugar at a glance



Newark

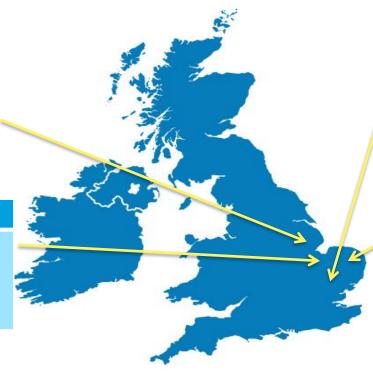
Details

- Circa.200 permanent and seasonal employees
- 700 growers supply 1.6 million tonnes of sugar beet every year

Wissington

Details

- Circa. 320 permanent and seasonal employees
- 1,000 UK growers supply over three million tonnes of sugar beet every year
- Largest beet sugar factory in the world



Bury St Edmunds

Details

- Circa. 320 permanent and seasonal employees
- Over 700 growers supply over two million tonnes of sugar beet every year
- Bagged sugar packaging facility

Cantley

Details

- Circa.160 permanent and seasonal employees
- Over 700 growers supply over 1.3 million tonnes of sugar beet every year
- Cantley was the first sugar factory built in the UK in 1912





#BackBritishSugar

Creating a level playing field for the British beet sugar industry

 Buy homegrown British Sugar - look out for the Silver Spoon brand







- Show your support for a great British industry on Twitter (@BritishSugar)
- or Instagram (@BackBritishSugar) using #BackBritishSugar





Annually we purchase 7.5MT of Sugar Beet from 3K growers between September to February & recycle 200KT-300KT of prime arable topsoil









We have 40KT of covered storage: Ensuring Quality "On time and in Full year round"











NHBC Accepts: We are the first topsoil to be awarded NHBC Accepts

NHBC Accepts - endorsed by the Government's Modern Methods of Construction (MMC) Champion, enables quicker assessment of a home for warranty and reduces the risk to the builder of delays in their project from sub-standard materials.

Any product or system with the NHBC Accepts logo will have been rigorously assessed to ensure it can meet NHBC's robust standards, giving confidence to developers, investors, lenders and homeowners.

British Sugar TOPSOIL's Landscape20 General Purpose Topsoil and General Purpose Subsoil products have been officially welcomed to NHBC Accepts.





NHBC Statement

"British Sugar TOPSOIL can help builders meet the requirements of Chapter 10.2 of NHBC standards







British Sugar TOPSOIL Product Range Available in bulk loads or bulk bags



Free Draining subsoil: Suitable where a faster draining subsoil is needed i.e. lawns, sports pitches & tree pits



Landscape 20 is a fully-analysed and compliant to BS3882:2015, sandy loam, TOPSOIL. It is ideal for general landscaping projects such as seeding and turfing that meets NHBC Accepts.



HortLoam is a BS3882:2015 compliant planting topsoil. With optimum reserves of organic matter and nutrients, HortLoam is ideal for planting rootball trees, shrub bed, retained planters and vegetable planting projects.



Lawn dressing is ideal for the construction and repair of lawns where a free draining but fertile rootzone is needed.



British Sugar TOPSOIL: Supporting Information

What is Soil: A blend of sand, silt, clay & organic matter

Topsoil

- Typically the top 30cm, darker and fertile composed of mineral particles, organic matter, water and air
- A healthy soil should contain living Bacteria and Fungi

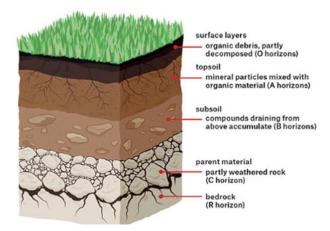
Subsoil

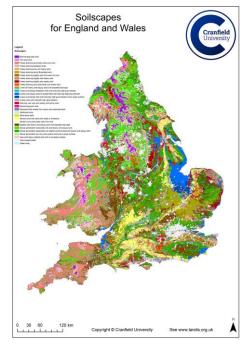
Directly under topsoil, lighter in colour, less fertility

Parent material / Bedrock

Can be solid rock which breaks down with weathering

There is a big variation in soil types across the country







R & D, Analysis & Customer Feedback is at the heart of everything that we do

Why

- Ensure that our products are fit for purpose
- Check that our products meet our customers needs
- Meet the needs of the regulators
- Ensure we sell the right product for the right project
- Drive consistent quality
- Give reputable and un-biased information to our customers
- Give our customers confidence in our products

Trials

- Must be done by a respected and accredited establishment
- Must be randomised and replicated to ensure a true result

Analysis

- Must be done by accredited labs, using accredited methods
- · Tested and compared against industry standards
- Interpretation of results

Customer Feedback

- Post delivery calls
 - Product development
- Case studies













Sampling & Analysis: British Sugar TOPSOIL analyse for 70 different parameters

- Samples are taken in accordance, at least, to BS3882:2015 every 5,000m3 (8KT)
- 25 sub samples are taken to ensure the bulk sample is representative
- We analyse our products over 30 times each year and hold historical data
- Laboratory analysis is undertaken at a UKAS and MCERT accredited laboratory
- Tim O'Hare Associates report includes
 - Declaration of compliance BS3882:2015 / BS8601:2013
 - Analytical schedule
 - Results of analysis
 - Conclusion
 - Recommendations
 - Certificate of Analysis



We ensure a representative sample is taken



Analytical Schedule:

Ensures are product contains no concentrations of chemical contaminants that would cause significant harm to human health and the environment

ANALYTICAL SCHEDULE

The sample was submitted to a UKAS and MCERTS accredited laboratory for a range of physical and chemical tests to confirm the composition and fertility of the soil, and the concentration of selected potential contaminants. The following parameters were determined:

- · detailed particle size analysis (% 5 sands, silt, clay)
- stone content:
- · pH and electrical conductivity values;
- exchangeable sodium percentage;
- major plant nutrients (N, P, K, Mg);
- · organic matter content;
- C:N ratio:
- heavy metals (As, B, Ba, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, V, Zn);
- · total cyanide and total (mono) phenols;
- · aromatic and aliphatic TPH (C5-C35 banding);
- speciated PAHs (US EPA16 suite);
- · benzene, toluene, ethylbenzene, xylene;
- asbestos screen.

The results are presented on the attached Certificate of Analysis and an interpretation of the results is given below. The interpretation considers the use of the LANDSCAPE 20 TOPSOIL for general landscape purposes and its compliance/non-compliance with our general landscape specification.

Report should also include:

- Results
- Feedback on Potential Contaminants
- Recommendation





We watermark all certificates to prevent fraud



Declaration of compliance BS3882:2015



Declaration of Compliance BS3882:2015

Soil source: British Sugar TOPSOIL

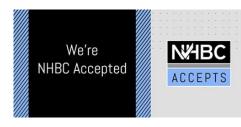
This declaration confirms that the topsoil represented by the attached Topsoil Analysis Report conforms to the requirements of the British Standard for Topsoil (BS3882:2015).

The sample was sampled and tested in accordance with the requirements of BS3882:2015

- Samples are taken for analysis every 8000 tonnes (5000 m3) of product
- Samples are taken from all TOPSOIL products ready for despatch
- All products are sampled after screening
- Analysis certificates are retained for a period of 5 years
- · Laboratory analysis is undertaken at a UKAS and MCERTS accredited laboratory
- All laboratory methods are in accordance with BS3882:2015
- · All British Sugar TOPSOIL products are produced to a Quality Management System approved by Lloyd's Register Quality Assurance to ISO 9001:2008 standard

British Sugar TOPSOIL, National TOPSOIL Manager Sugar Way, Peterborough, PE2 9AY

Telephone 0870 2402314







Certificate of Analysis

We're NHBC Accepted



If older than 6 months ask questions?

Job: Date:	Bury St Edmunds			1			
	Topsoli Analysis 29/10/2019			1			
	29/10/2019 TOHA/19/9247/55		_	ł			
JOB PRI NO.	TOTAL INVESTIGATION			ı			
Sample Refe	mines			1	L20-Bury	+Oct 19	
			_	:			
Clay (<0.002)	nm)	- 3	U	l	22		
SIR (0.002-0.0	X3mm)	*	U	ł	56		
Sand (0.063-	2.0mm) (UK Classification)	-	U	ł	50	+	
Stones (2-20)	mm)	% DW	Ğ	1	1	-	
Stones (20-5)	Orran)	% DW	G	1	Ö	-	
Stones (>50n	and a	% DW	G	1	0	-	
			=	:			
pH Value (13	2.5 water extract)	units	G	1	7.9	-	
Electrical Cor	ductivity (1:2.5 water extract)	uS/cm		l	1413	-	
	e Sodium Percentage	uS/cm	U	l	3010		
Moteture Con	a populari Percentage fant	- 2	ŭ	1	16	 _ 	
Organic Mats	er (LOI)	%	Ü	1	5.8	-	
Total Nitroger	n (Dumas)	%	U	1	0.38	-	
C: N Ratio		.1	U	1	9	-	
Extractable P	hosphorus	mg/l		l	65		
Extractable P	otessium	mg/l	U	l	981		
Extractable N	agreement.	mg/l	v	1	110	*	
Total Amenic	(Aa)	mg/kg	М	1	10	/	
Total Barlum	(Ba)	mg/kg	м	1	45	/	
Total Beryllius	m (Be)	mg/kg	М]	0.66	- /	
Total Cadmiu	m (Cd)	molecu	м	1	0.4	1	
Total Chromit	am (Cr)	make	M	1	23	-	
Total Copper	hromkim (Cr VI)	mg/kg mg/kg		ł	23		
Total Lead (P	6)	mg/kg	M	1	23	1	
Total Marrier	(He)		-	1		1	
Total Mercury Total Mickel (NI)		M	1	40.3 15	1	
Total Seleniu	m (Se)	mg/kg mg/kg	М]	1.4	- /	
Total Vanada	an (V)	mg/kg	М	I	32	-	
Total Zinc (Zr	Dame (B)	mg/kg		1	60		
Water Soluble Total Cyanide	(CM)	mg/kg	1 10	ł	3.2	-	- 5
Total (mono)	Phenois	mg/kg	M	1	41.0	1	
Naphthalene		mg/kg	М	1	< 0.05	/	
Acenaphtryle	ne .	mg/kg	M	1	< 0.05	/	
Apenaphthen	•	mg/kg	м	I	< 0.05	1	
Plugrene		maka maka	2	ł	< 0.05		
Phenanthren Anthrecene		mg/kg	M	1	< 0.05	1	
Plugranthene		mg/kg		1	< 0.05	1	
Pyrene		mg/kg	м	1	< 0.05	/	
Benzolsland	PROBEE	mo/so	м	1	< 0.05	1	
Chrysene		mg/kg	M	I	< 0.05	-	
Benzo(b)fluor	athere	mo/ka	M	I	< 0.05	10	
Benzo(k)fluor		mg/kg mg/kg		ł	< 0.05	1 7	
Benzolskym Indeno(1,2,3-	oflowers	make	M	1	< 0.05	1	
Olbenzo(s,h):	enthracene	mg/kg mg/kg	м	1	< 0.05	/	
Benzo(g,h,l)p	erylene	mg/kg	M]	< 0.05	N.	
Total PAHs ()	um USEPA16)	maka	М		< 0.80	/	4
				. /	- 0.00°	-	
Alliphatic TPH Alliphatic TPH	(08-08)	mg/kg mg/kg	2 2		< 0.001		
Allphatic TPH	(08-010)	maka			< 0.001	1	
Allohatto Title	(010-012)	mg/kg	M	1	41.0	1	
Alliphatic TPH Alliphatic TPH	(012-016)	mg/kg	M	1	< 2.0	1	
Alliphattic TPH	(C16-C21)	mg/kg	M	1	< 8.0	- /	
Alighetic TPH	(C21-C35)	make:			< 8.0	1	
Allahatic TPH	(C5-C35)	mg/kg	W		< 10 < 0.001	-	
	((CZ-CR)	mg/kg mg/kg	M	-	< 0.001	-	
Assessable Title	tica cia	make	M	i.	< 0.001	1	
Aromatic TPI Aromatic TPI				•		+	
Aromatic TPI	(1010-012)	make	M		< 1.0		
Aromatic TPI	(1010-012)	maka	M	1	+2.0	1	
Aromatic TPI	(1010-012)	maka	M		< 10	1	
Aromatic TPI Aromatic TPI Aromatic TPI Aromatic TPI Aromatic TPI	((C10-C12) ((C12-C16) ((C16-C21) ((C21-C36)	maka maka maka maka	222		< 2.0 < 10 14		
Aromatic TPI	((C10-C12) ((C12-C16) ((C16-C21) ((C21-C36)	maka	222		< 10	1	
Aromatic TP: Aromatic TP: Aromatic TP: Aromatic TP: Aromatic TP: Aromatic TP:	((C10-C12) ((C12-C16) ((C16-C21) ((C21-C36)	maka maka maka maka maka	M		< 10 14 14	1	
Aromatic TP: Aromatic TP: Aromatic TP: Aromatic TP: Aromatic TP: Aromatic TP: Bercone	((C10-C12) ((C12-C16) ((C16-C21) ((C21-C36)	maka maka maka maka maka	N N N		< 2.0 < 10 14 14 < 0.001	1	
Aromatic TPI Benzene Toluene	1(012-012) 1(012-016) 1(016-021) 1(021-035) 1(021-035)	maka maka maka maka maka maka maka	× × × ×		<2.0 <10 14 14 14 <0.001 <0.001	1	
Aromatic TPr Tolumna Elitybercana o-cylena	1(010-012) (1012-016) 1(016-021) 1(021-035) 1(05-035)	maka maka maka maka maka maka maka maka	× × × ×		< 2.0 < 10 14 14 < 0.001 < 0.001 < 0.001	1	
Aromatic TPI Tobana Tobana Ethybanase	1(010-012) (1012-016) 1(016-021) 1(021-035) 1(05-035)	maka maka maka maka maka maka maka	× × × ×		<2.0 <10 14 14 <0.001 <0.001 <0.001	1	
Aromatic TP: Bendana Toluana Elliybanasas o-oylana m & p-sylana	11010-012) 11012-018) 1(016-021) 1(021-039) 1(05-038)	mgkg mgkg mgkg mgkg mgkg mgkg mgkg mgkg	M M M M M		< 2.0 < 10 14 14 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	/ / / / /	
Aromatic TPr Tolumna Elitybercana o-cylena	11010-012) 11012-018) 1(016-021) 1(021-039) 1(05-038)	maka maka maka maka maka maka maka maka	M M M M M		< 2.0 < 10 14 14 < 0.001 < 0.001 < 0.001	/ / / / /	
Aromatic TPI Benzene Totuene Elimbenzene onylene m & puylene Asbestos	(610-617) (612-618) (614-627) (624-628) (624-628)	mgkg mgkg mgkg mgkg mgkg mgkg mgkg mgkg	M M M M M		< 2.0 < 10 14 14 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001	/ / / / /	
Aromatic TPI Benzens Toluens Elitybenzens o-cylens m & p-cylens Asbestos Visual Exem	(1619-6-17) (1619-6-17) (1619-6-17) (1619-6-17) (1619-6-17) (1619-6-17)	maka maka maka maka maka maka maka maka	M M M M M M M		< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 0.001 0.001 0.001	/ / / / / /	
Aromato TPI Benzane Totuane Etimolecuria m & projeme Asbestos Visual Exem Usual Exem Da propiere	(6195-617) (6195-618) (6195-618) (6195-618) (6195-618)	mgkg mgkg mgkg mgkg mgkg mgkg mgkg mgkg	M M M M M M M M M M M M M M M M M M M	need Colour	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Aromato TPI Benzane Totuane Etimolecuria m & projeme Asbestos Visual Exem Usual Exem Da propiere	(6195-617) (6195-618) (6195-618) (6195-618) (6195-618)	mgkg mgkg mgkg mgkg mgkg mgkg mgkg mgkg	M M M M M M M M M M M M M M M M M M M	need Colour	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Aromatic TPI Bercane Tokens Ethnologiste Conjune Sponjare Asbestos Visual Exami The sample venola, frisble, structure	Inelian Ine	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg MD/D With a visual of our	M M M M M M M M M M M M M M M M M M M	need Colour	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Aromatic TPI Bercane Tokens Ethnologiste Conjune Sponjare Asbestos Visual Exami The sample venola, frisble, structure	(6195-617) (6195-618) (6195-618) (6195-618) (6195-618)	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg MD/D With a visual of our	M M M M M M M M M M M M M M M M M M M	need Colour	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Aromatic TPI Control Toluens Toluens Toluens Toluens Toluens Toluens Toluens Toluens The sample v rects or rhizo	Intilidation Intil	mg/kg MD/D MH hown With a wand no ut seerved.	M M M M M M M M M M M M M M M M M M M	need Colour	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Aromatic TPI Bencanse Totalese Totalese m 5 poplarse m 5 poplarse The sample v recist, frisble, atructure. The recist or frisble, atructure. The	Intitle-City City-City (City-City) (City-	mg/kg	M M M M M M M M M M M M M M M M M M M	need Colour	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Azomatic TPI Barctante m & pugliare m & pugliare Azomatic TPI Trocks con mission y limit Experiment Trocks con mission y limit TPI X II X	Intilidad (1) (C21-C39) (C21-C39) (C31-C39) (C31-C3	mg/kg	M M M M M M M M M M M M M M M M M M M	nsell Colour developed	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Aromatic TPP Aroma	Intelident	mg/kg	M M M M M M M M M M M M M M M M M M M	nsell Colour developed	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Azomsio TPI Bercane Totare Elizabe azomsio Azomsio TPI	Intilidation Intil	mg/kg	M M M M M M M M M M M M M M M M M M M	nsell Colour developed	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	
Azomatic TPP Berchane Tolumn B purplane Tolumn B purplane Tolumn B purplane Tolumn The sample we molet, friable, astuchus. The roots or rhizo X I SCI. U U U U U	Intelident	mg/kg	M M M M M M M M M M M M M M M M M M M	nsell Colour developed	< 2.0 < 10 14 14 14 < 0.001 < 0.001 < 0.001 < 0.001 Not detected	/ / / / / / /	

Client British Sugar pic Co-Products



Parameters





Soil Carbon: Soil Carbon / Soil Health: It is important that we understand the health of our soils and remember its function

The focus on soil health and climate change has brought attention to the levels of carbon stored in soil.

Through measuring soil carbon stocks we can better understand our product and its carbon sequestration potential

Carbon sequestration is the process of capturing and storing atmospheric carbon dioxide

To do this you need to monitor the soil organic carbon

Working with Tim O'Hare Associates we analyse, at the point of despatch, the carbon contained in Landscape20







Soil Carbon:

Indicates soil health

Typical results

- Organic Carbon 75-98t/ha
 - Based to a placed depth of 300mm
- Total Carbon 3%
- Soil Organic Carbon 2.5%
- Soil Inorganic Carbon 0.5%
- Active carbon 790mg/kg
- Active carbon % of SOC 3% of SOC
- %OM 4%
 - Moderate levels
- Total N .29%
- C:N ratio 9



Client:	British Sugar plc Co-Products	_
Project:	Landscape 20 Topsoil - Wissington	_
Job:	Soil Carbon Audit	_
Date:	25/11/2022	_
Job Ref No:	TOHA/22/7756/SS	_

		Accreditation
Organic Carbon Stock	tonnes / ha	UKAS
Bulk Density	kg/l	UKAS
Total Carbon	%	UKAS
Soil Organic Carbon (SOC)	%	UKAS
Soil Inorganic Carbon (SIC)	%	UKAS
Active Carbon	mg/kg	UKAS
Active Carbon % of SOC	% of SOC	UKAS
Organic Matter	%	UKAS
Total Nitrogen	%	UKAS
C : N Ratio	ratio	UKAS

	Wi-L20-Nov 22
	79#
	1.05
₹	3.0
_	2.5 0.5
	0.5
	790
⊿	3.2
	4.4
	0.29
	9

based on a topsoil depth of 300mm

Visual Examination

The sample was described as a very dark greyish brown (Munsell Colour 10YR 3/2), slightly moist, friable, moderately calcareous SANDY LOAM with a weakly developed, fine to medium subangular blocky structure. The sample was virtually stone-free and no unusual odours, deleterious materials, roots or rhizomes of pernicious weeds were observed.

H.MacRae

Harriet MacRae BSc MSc

Graduate Soil Scientist

Results of analysis should be read in conjunction with the report they were issued with

The contents of this certificate shall not be reproduced without the express written permission of Tim O'Hare Associates LLP



Soil Health

A healthy soil, containing living Bacteria and Fungi, will allow better nutrient availability and support healthier plants

Cranfield University carried out research to calculate the levels of microbial biomass in our 3 products: Landscape20, Hort Loam and Sports&Turf

Conclusion

- "Sport and turf" consistently had reduced microbial biomass compared to the other two soil types, with little change over time
- "Hort Loam" has the greatest microbial biomass overall
- "Landscape20" microbial biomass is slightly reduced compared to "Hort Loam"

Sand is inert Clay & OM hold nutrients & Microbial Biomass





Case Study: SIDA Consultancy

Renovation of an area of communal and private gardens in the Noak Hill Road area of Billericay in Essex

- 980 tonnes of Free Draining sub soil
 - Laid to a depth of 700mm and consolidated.
- 200 tonnes of Landscape20
 - · Laid to a depth of 300mm
- Delivered to site on rigid tippers







Sida Consultancy Managing Director Sanjay Sidar commented:

"The quality of both products was excellent; sales manager Kim Campton was extremely helpful and attentive ensuring that all deliveries went smoothly and was on hand to answer any questions I had. I would certainly recommend and use British Sugar TOPSOIL for any future projects."



Site Managers Guide & Aftercare Guide



A Site Manager's Guide

- What is the history of the site? Has a soil survey been carried out? Has the existing site soil been analysed for con
 - Is the soil heavily compacted/waterlogged or contaminated with construction waste?
- is de-compaction/clean-up work needed?
- What imported soil is required Subsoil? Topsoil? How much?
- If the onsite soil is suitable for re-use: First remove any vegetation
 - Strip the topsoil and store
 - Strip the subsoil and store
 - is there a suitable area for storing and weatherproofing the onsite/imported soil?

PREPARE the site:

- Only in dry conditions, de-compact heavily trafficked/waterlogged areas using a ripper tine attachment on an excavator to rip the soil to depths of between 30cm and 60cm to loosen and break up the compacted layers.
- Prepare a clean, segregated and fenced off area to store onsite/imported soil, preferably on higher ground to prevent water running into it. Sheet the stockpiles if the soil is to be stored for several weeks.

. Talk to your supplier - use the checklist below to make sure you order the right soil in the correct quantities. delivered without incident.

PLACE your soil:

- Avoid handling soils in wet conditions and minimise all traffic (machinery and pedestrian) on the areas to be landscaped. Place your soil to the correct depth. lightly consolidating with the back of an excavator bucket between different soil levels
 - Subsoil: Tree nits = 500,700mm; Planting areas = 300mm
- Topsoil: Turf and grass areas 150mm-200mm; Planting areas 300mm max · Rake, then plant or turf, before cordoning off freshly landscaped areas.

Make sure you ask your soil supplier the following questions before ordering:

- What is the source of your soil? Greenfield/Brownfield/Skip/Manufactured
- Do your products comply with the relevant British Standard for Subsoil and Topsoil
- How is it stored? Undercover/Outdoors
- Do you have enough for the duration of this project Who does your sampling and analysis?
- Can I have a copy of the Declaration of Analysis?
- Are you a member of a reputable industry organisation?

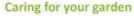
INFORMATION YOUR SUPPLIER WILL NEED WHEN YOU PLACE AN ORDER

To ensure you order the right soil in the correct quantities, delivered without incident, have the following

- Type of project housebuilding, amenity/commercial landscaping, tree planting, turfing etc.
- Type of soil (subsoil/topsoil) and quantity required calculate the area to be covered and the depth of product required to enable your supplier to calculate the correct tonnage.
- Site access most suppliers will deliver their soil in loose loads by 20 tonne rigid vehicles or 29 tonne articulated trucks. It is crucial you give them the following information for an incident-free delivery:
- Width of access
- Width of approach road/driveway
- Any weight restrictions on the approach/site
- Any height restrictions on site/overhead services
- Site access times and any restrictions
- Any local knowledge regarding adjacent properties/schools/neighbours etc.
- Onsite contact name and mobile number
- Order information (e.g. PO number etc.)

To order call 0870 240 2314

topsoil@britishsugar.com www.bstopsoil.co.uk All products are available in bulk, or in bulk bags (minimum order required)



ow successful your lawns and planting borders will be year after year is largely dependent on keeping the soil in your garden healthy. This means making sure that it contains enough air and nutrients and that water (rainfall and irrigation) can move freely



Common issues with newly imported and placed soil

Compaction. This is where the spaces between the soil particles become compacted, resulting in a lack of air in the soil, slow drainage, potential waterlogging, and plant deaths.

Causes: - Heavy trafficking by site machinery, vehicles and people

- Heavy rainfall
- The over-application of surface mulch (such as bark, woodchip, slate etc.)

Remedy—Break up and shatter the compacted layer* manually with a garden fork, or aerate with a spike or plug aerator. *To find the depth of a compacted layer simply push a probe or garden fork into the soil/turf until resistance is encountered.





Manually aerating the soil with a garden fork



De-compacting soil under turf

Natural settlement. It is common for soil to experience a degree of settlement after it has been

Causes: - The soil has been insufficiently consolidated or 'firmed down' after placing

- Where drainage has been installed, these areas can dry out more quickly, causing the soil to shrink and slump
- Heavy rainfall

Remedy—Break up and loosen the soil before firming it down, and apply topsoil or topdressing to level up slumped areas. To raise topsoil levels in planting beds, simply add more topsoil and wellrotted organic matter between the plants, as required.



Removing turf to raise



Raising soil level beneath turf with topsoil or topdressing



Top dressing a lawn after



SubSoil

Landscape 20

HortLoam

Delivery Options

Typical Articulated Truck

Gross weight	44 tonne
Net weight	29 tonne
Width	3.2 metres
Length	12.8 metres
Height	4.0 metres

Typical Rigid Truck

Gross weight	32 tonne
Net weight	20 tonne
Width	3.2 metres
Length	11.5 metres
Height	3.7 metres

Typical Grab Lorry

Gross weight	32 tonne
Net weight	15 tonne
Width	3.0 metres
Length	11.3 metres
Height	3.7 metres









Bulk Bag

Minimum order: 10 bulk bags for delivery

Considerations:

Do you have an on site means of unloading the bags?

Do you need a self unloading vehicle? We can deliver by grab or moffet





To find out more about British Sugar TOPSOIL

To arrange a visit or for more information on TOPSOIL products call 0870 240 2314 or visit our web site **WWW.bstopsoil.co.uk**





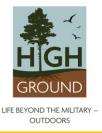












"British Sugar TOPSOIL can help builders meet the requirements of Chapter 10.2 of NHBC standards"





Soil Carbon: Analytical Schedule

Organic Carbon Stock (t/ha)

- Provides a total organic carbon value in tonnes of carbon per hectare
- Theis calculation factors in the measured soil organic carbon %, stone content, topsoil depth (300mm) and bulk density

Total Carbon

Measure of all carbon forms, inorganic and organic, within a soil

Soil Organic Carbon (SOC)

- Is the carbon component of soil organic matter
- Diverse group of carbon based compounds from the decomposition of plant material, FYM, soil fauna
- The levels of SOC are influenced by environmental and management practices
- Adding of composts / FYM / Rainfall / Temperature

Soil Inorganic Carbon (SIC)

- Comprises carbonates and bicarbonates which are found in alkaline soils
- In our case the SIC is found in the limestone and chalk particles naturally present in our soils

Active Carbon

- This is the carbon that readily breaks down and is accessible to soil microbes
- It is a useful indicator of soil health
- It is influenced by soil management, cultivation and the addition of organic matter

Soil Organic Matter

- Is a complex mixture of many forms of organic matter found in soils both living and dead
- · Roots, microorganisms, leaf litter
- Helps to hold moisture and Nutrients

Total Nitrogen (N)

- Measure of all forms of N (organic & inorganic)
- Main nutrient for plant growth
- OM will influence

C:N Ratio

- The proportion of OC to N
- Optimum C:N ratio for N release in soil is between 10-12.
 Max is 20

