

Water Treatment Products and Services



Day Group's Water Treatment department has many years experience in the supply and installation of filter media and other support products and specialises in the use of blast furnace slag as a media in percolating filters.

Benefits of Day Group's Water Treatment Service

- Flexible delivery
- National service covering the UK and Eire
- Access to a full range of high quality products

Services offered to clients within the water industry

- Site filter surveys
- Budget costs
- New filter construction
- Existing filter refurbishment
- Recycling of existing filter media
- Associated civil works
- Declassification of contaminated media

Blast furnace slag is the best mineral filtration media

The advantages are:

- Lightweight
- Large specific surface area (up to 150sqm per m³)
- Excellent moisture retention
- Fully recyclable
- Structurally sound and robust

Key Products available nationally

- Blast Furnace Slag Filter Media BS1438:2004
- Sand Filter Media
- Washed Support Gravels
- Pre-cast wall sections and filter drainage support tiles
- Loose or bagged products

How to contact us

Southern enquiries: 020 8380 9600

Email: contracting@daygroup.co.uk

Please see reverse for material gradings and technical information.



DAY
GROUP LTD



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Physical properties summary

Air Cooled Blast Furnace Slag

Typical Values

SOURCE:- EX PORT TALBOT, SCUNTHORPE

Aggregate Crushing Value	35
10% Fines Value Soaked	85kn
Aggregate Impact Value (Dry)	33
Sodium Sulphate Soundness	Average weight loss 1.2%
Water Absorption (% By Weight)	3.7%
Polished Stone Value	53 - 57

Specific surface areas for various media

Range for graded material represents maximum oversize or undersize material permitted by British Standard 1438:2004

Nominal Maximum Size of Media (mm)	Specific surface area (m ² /m ³) Type of medium					
	Granite		Blast furnace Slag		Crushed Gravel	
	Single-size	Range for graded material	Single-size	Range for graded material	Single-size	Range for graded material
20/40	135	129 - 149	146	140 - 163	125	120 - 140
32/50	97	94 - 111	104	101 - 118	89	86 - 101
40/63	75.5	73 - 85	81	79 - 90	69	67 - 77

Material gradings and sizes

BS 1438: 2004 Table 1 Grading Limits For Media

BS 410 Square hole perforated plate test sieve	NOMINAL SIZES - mm						Graded production 75/40
	40/63	32/50	20/40	14/32	10/20	6/14	
	% BY WEIGHT PASSING						
75	100						95/100
63	85/100	100					70/100
50	0/35	85/100	100				40/80
40	0/5	0/30	85/100	100			0/10
31.5		0/5	0/40	85/100	100		
20			0/5	0/40	85/100	100	
14				0/7	0/40	85/100	
10					0/7	0/40	
6.3						0/7	
2	0 to 3	0 to 3	0 to 3	0 to 3	0 to 3	0 to 3	
0.06.3	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	
Bulk Density Mg/M ³	1.25	1.26	1.27	1.32	1.37	1.40	1.27