



Social domicile:

Conde Fenosa, 21 – 1º

P.O BOX: 59

32300 O Barco de Valdeorras (Ourense) – Spain

Phones : 00 34 **988 32 07 34**

00 34 **988 32 04 73**

Fax: 00 34 **988 32 24 51**

e-mail: grafitosbarco@grafitosbarco.com

Factory:

Rua de Albar (Ctra. de Entoma) – A Barxa

32300 O Barco de Valdeorras (Ourense) – España

Phones : 00 34 **988 32 07 88**

Fax: 00 34 **988 32 27 79**

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PRODUCT SPECIFICATION SHEET

Material : Pelletized synthetic graphite

Comercial name : PGS

Chemical analysis :

Parameter	Method / Instrument of Determination	Typical Specification (*)
Moisture	Humidity balance GRAM PRECISIOM SERIE SV In an oven at 106°C. due to weight loss	0'31 %
Fixed carbon (dry base)	By difference: % C. F. = 100 % - (% Ashes + %Volatiles)	98'28 %
Ash (dry base)	ISO 1171 (= UNE 32004)	0'83 %
Volatile matter (dry base)	ISO 562 (= UNE 32019)	0'90 %
Sulphur	ASTM D4239-05 - LECO SC 132 / LECO SC 432	0'034 %
Nitrogen	ASTM D5373-08 - ELTRA ONH 2000	0'025 %

Size:

Pellet width: 4 mm

Pellet length: 3 – 7 mm

< 1 mm. 5'00 Max. % of total weight passing through 1 mm sieve.

Packaging / Packing:

- ✓ 20 kgs sacks on pallet of 1.000 – 1.200 kgs. with retractable plastic cover.
- ✓ Big bags of 1.200 kgs. on pallet.
- ✓ Bulk.

Identification / Quality documentation:

- ✓ The product shall be delivered identified with the name of the manufacturer, name of the product and manufacturing batch number.
- ✓ With each delivery, the Analysis Bulletin of the corresponding manufacturing batch will be sent. Analytical determinations are carried out in our laboratory using the methods and instruments indicated. The values of each of the parameters reflected in the analysis bulletins of each batch correspond to the average value of the different determinations carried out for that parameter and in that batch.
- ✓ The analytics verification and the preparation of standard samples for certain parameters are carried out, according to standardised methods, by SGS Española de Control, S.A, which has laboratories. accredited according to NBN EN ISO / IEC 17025:2005 for the performance of tests relating to all the parameters contained in this specification.

(*)Date of update typical
specification

30/06/2023

Technical specification

PGS



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Notes :

- ✓ The product specification sheet shall be reviewed at least every six months to collect as typical values the average values obtained in our laboratory, during that period, for the different parameters of the total lots analyzed of this material.
- ✓ Maximum and minimum values of the analysis parameters according to the specified determination methods and instruments:
 - Humidity: 0'50% Max.
 - Fixed Carbon: 98'00% Minimum
 - Ashes: 1'00% Max.
 - Volatiles: 1'00 % Max.
 - Sulphur: 0'05 % Max.
 - Nitrogen: 0'05 % Max.
- ✓ The following table shows the revisions carried out due to substantial parameter changes in the product specification (determination method, maximum/minimum parameter values,...), except for typical specification values obtained each semester.

Review	Date	Reason or cause for review
1	09/03/2016	1) Product sheet creation
2	31/12/16	1) Inclusion of typical values (typical specification) as average values of determinations carried out for the different parameters and lots during six-month periods (January-June, July-December) of each calendar year.
3	31/12/2017	1) Inclusion of new equipment for Sulfur determination: LECO SC 432. Calibration using controlled standard sample according to ASTM D5373-05.
4	31/12/2017	1) Withdraw of the equipment LECO TN 114 for determination of Nitrogen.