

1. DESCRIPTION

Leca® Dur is a non-combustible expanded clay granulate with a dimension of 4 to 10 mm obtained by processing natural materials for use in concrete, prefabrication and mortars in buildings, roads and civil engineering works.

2. STORAGE

Material handling during transport and storage can influence its characteristics. Eg segregation, breakage or water absorption may occur, which may influence some characteristics of the shipped material. Humidity on delivery varies with weather conditions.

3. APPLICATION AREA

Isolation of ground floors, roofs and terraces, accessible or not; creation of pendants; lightweight filler and insulation concrete; pipe protection and insulation; prefabrication; agriculture and floriculture.

4. PACKAGING

- bulk
- Big bag with 3 m³
- Big bag with 1.5 m³
- bag 50 l

5. GRANULOMETRIC CURVE (NP EN 933-1)

The curve and values presented at this point refer to 99 tests carried out on 1188 samples collected during 2019 and should not be considered as a general specification of the material in question.

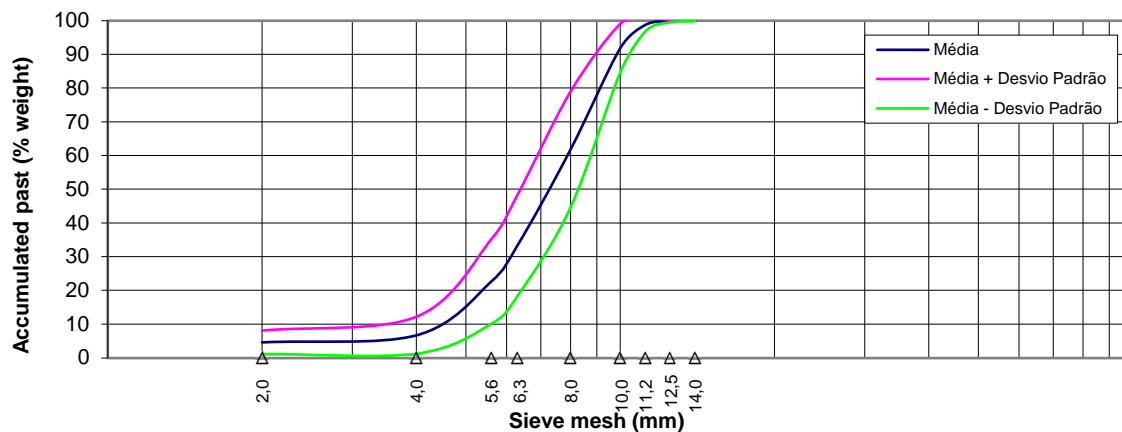


Table 1. Grain size curve

Sieve mesh [mm]	2.00	4.00	5.60	6.30	8.00	10.00	11.20	12.50	14.00
Average accumulated past [% weight]	5	7	23	33	62	92	99	100	100
Max. Declared value	15								
min. Declared value					100				
d50 ± Standard Deviation					7.3 ± 0.9				

6. PHYSICOCHEMICAL PROPERTIES

Table 2. Physical-chemical characteristics of the product

Property	Declared value
Particle shape of Leca® aggregate	approximately spherical
Reaction to fire	Euroclass A1 (non-combustible)
Crush resistance of Leca® aggregate	≥ 1.1 MPa, according to NP EN 13055-1
Percentage of crushed particles	≤35% of the mass, according to NP EN 933-5
Apparent dry density	330 Kg/m ³ ± 15%, according to NP EN 1097-3
Particle density	600 kg/m ³ ± 15%, according to NP EN 1097-6
Water absorption after 24h immersion	< 34% of its dry mass, according to NP EN 1097-6
Chloride content (Cl)	< 0.1%
Acid-soluble sulfate (SO ₃)	< 0.4%
Sulfur content (S)	<0.2%
pH	9-10

7. RECOMMENDATIONS FOR APPLICATION

Leca® Dur can be applied loose or bonded with a hydraulic binder (in the case of mortars and lightweight concrete). In this case, the water must be mixed in two stages: first, mix the Leca® Dur with 2/3 of the water for 1-2 min and only then add the cement and the remaining water, mixing for about 3-4 min.

For more information, consult the Declaration of Performance of the product according to EN 13055-1/AC: 2004.

The product information contained in this Data Sheet is presented in good faith and is based on accumulated experience and knowledge in typical usage situations. The conditions of application and use may influence the behavior of the product, so it is advisable to carry out checks and tests in each specific situation.