

tefralite

NATURAL PRODUCT



LIGHT EMBANKEMENTS

Mineral aggregate, fire resistant,
phonetic-absorbent and thermo-insulating

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Tefra is also ready to use substrata:

tefra garden
tefra green
tefra red

Gardening
Green carpets
Mulch

• Technical characteristics

Tefralite is a natural product deriving from the shattering and screening of particular volcanic lava characterized by high porosity and structural resilience. Each granule of **Tefralite** has between the 40% and 60% of empty space, thus it can be utilized in all those fields that need a light lapidary aggregate with high phonetic-absorbent and thermo-insulating power. **Tefralite** is ice resistant, chemically inert, insoluble, odorless, poisonous less and free of reactive silica, organic pollutants and water bloated minerals. **Tefralite** is high temperature resistant (up to 900 °C) and ignitable. **Tefralite** thanks to its chemical composition, draining and humidity regulation properties is an excellent support for green areas, green terraces and floral nurseries.

Aggregate gradings:	3/5 - 5/10 - 10/18 - 10/40 - 50/100
Aggregate bulk density:	800 kg/m ³
Bulk density:	1.000 kg/m ³
Crush resistance (UNI7549/7):	25/35 N/mm ²

• Light embankments

Tefralite aggregates have a volcanic origin and thus a high porosity due to the flow of which are made. Their characteristics are low price and adaptability for all purposes that require both mechanical resistance and lightness: because of their mineralogical nature, mechanical and chemical properties are stable (Tefralite has a geological age greater than 30.000 years) and not sensible to water and ice action, therefore embankments realized with Tefralite are not subject to yield and settlement. Furthermore, the irregular shape and the high friction angle of Tefralite, almost 50°, as well as the good crushing resistance, favor the joint between the granules and thus the aptitude of sustaining without problems the passage of working machines; it also allows the in site stock of stable mounds: this feature simplifies supply, movement and placement procedures, which are particularly difficult on plastic and saturated grounds, conspicuously lowering the realization costs time. The placement is facilitated because Tefralite:

- does not need the interposition of mix stabilized layers for compaction;
- does not require long rolling and immediately reaches the project resistance characteristics (plate-bearing test);
- does not need protection after placement;
- if completely submerged, it does not adsorb an amount of water greater than 5-7% of the quarry humidity (that is released simply with drainage);
- can immediately bear the site traffic, even of tracked vehicles;
- does not contain butted plastic materials.

• Chemical composition

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	K ₂ O	Na ₂ O
48,8%	16,9%	7,8%	9,8%	4,2%	8,6%	1,8%



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