Sun Silicates manufactures a full range of exfoliated Perlite products. This includes filter media, cryogenic insulation as well as construction and hydroponic-grade Perlite.

SUNPERL FILTER AID

TYPICAL USES OF PERLITE FILTER-AID INCLUDE:

- **Filtration of wine**
- **Filtration of fruit juices**
- **Filtration of metal solutions**
- **Filtration of a variety of oils**

SunPerl filter aids operate in the Darcy ranges from 0.1 to 6 (Darcy is the standard for measuring flow rates).

The low density of Perlite filter aid is typically 20% to 50 % lighter than other filter media, ensuring cost effective filtration.

Perlite is lightweight, inert, sterile and does not dissolve or affect the taste of the product being filtered, making it ideal for food applications.

Filter aids are selected based on specific requirements, namely the filtration rate vs the clarity of the filtrate. They are fine-tuned based on the viscosity of the material to be filtered.

Perlite can be used in all standard filtering devices such as pressure leaf filters, plate and frame filter presses or vacuum drum filters.

Sun Silicates has the ability to custom manufacture products to customers' specific requirements.

"Perlite is an important filtration medium used in the clarification of beverages including beer, wine and fruit juices, a variety of oils and water filtration applications"

Sun Silicates' state-of-the-art plant uses natural gas for the high temperature exfoliation process making the product inert and suitable for use in the food industry. Sun Silicates is Halaal, Kosher and ISO 9001:2015 certified.

High quality Perlite ore is imported from Turkish mines, ensuring that we provide our customers with the finest quality product.

Find and follow us on social media @sunsilicates
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SUNPERL FILTER AID

Table 1: SunPerl Filter Aid flow rates and permeability grades

Grade	Flow Rate	Permeability (Darcy)
F15	8-15	4.0-5.5
F20	15-22	3.0-4.0
F25	22-30	2.2-3.0
F35	30-42	1.5-2.2
F45	42-60	0.8-1.5
F60	60-120	0.4-0.8

Figure 1: Perlite under a 10 micron microscope. The jagged interlocking structures of milled Perlite make it an ideal filter aid. (Photo credit: The Perlite Institute).

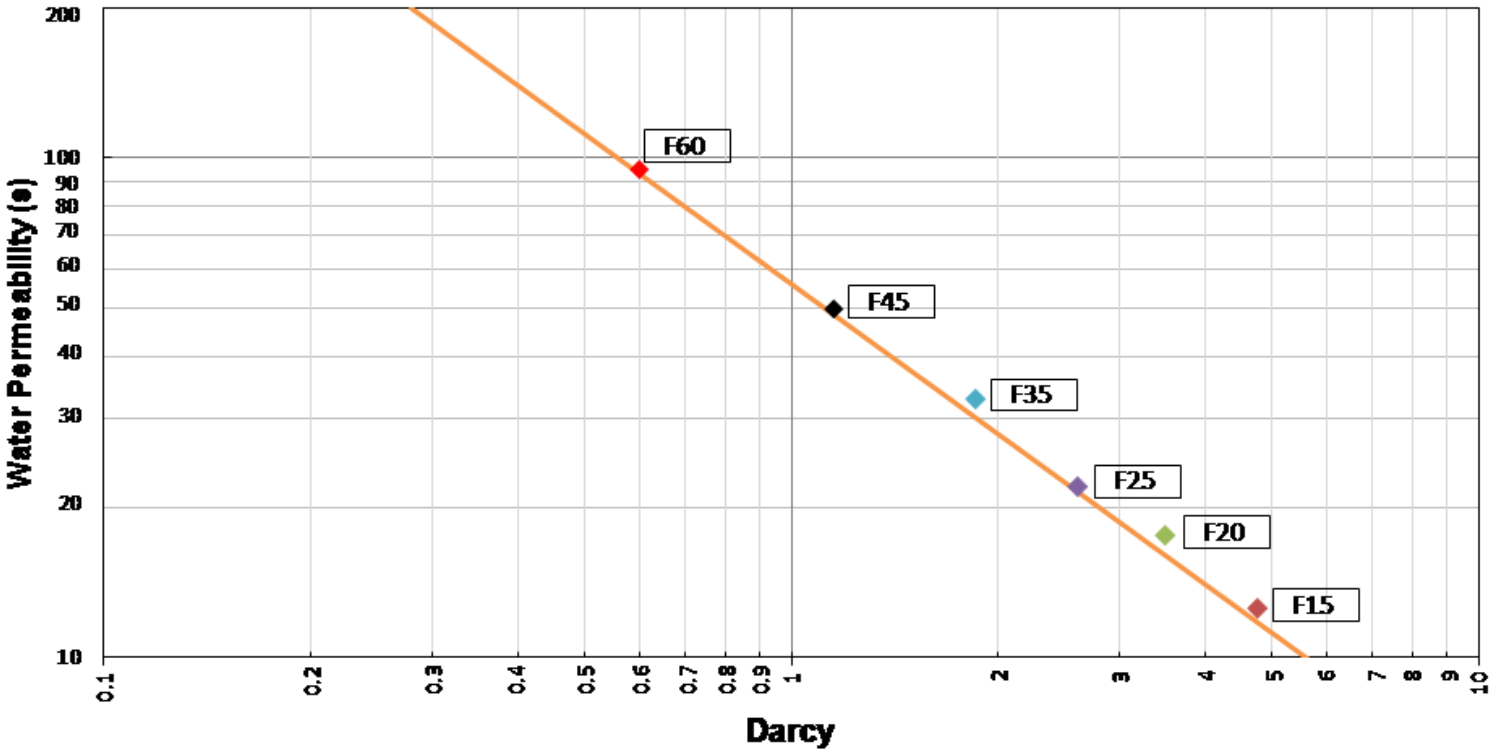

Figure 2: Water permeability of SunPerl Filter Aid grades at 30˚c

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