

Castament® FS 10 + Castament® FW 10

Characteristics / Chemistry

Castament® FS 10 and **Castament® FW 10** are free-flowing, spray dried powders of a polymerisation product based on polyethylene glycol. **Castament® FW 10** is an accelerated version.

Field of Application

Castament® FS 10 and **Castament® FW 10** are polymeric dispersants for improved refractory use. These highly effective free flowing powders are recommended for **microsilica-free refractory materials containing CAC (calcium aluminate cement)**.

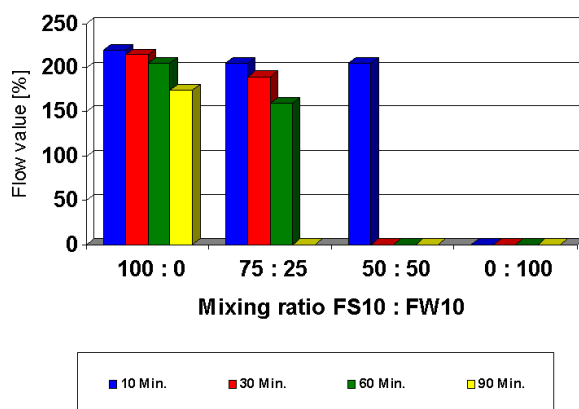
Selected Test Results

[Tabular Alumina 85%; Reactive Alumina 10%; CAC (70) 5%]

Castament® FW 10 is the accelerated version of **Castament® FS 10** containing lithium in addition to calcium which accelerates the setting and hydration of calcium aluminate cement. **Castament® FS 10** and **Castament® FW 10** can be mixed at any ratio to optimise workability and set behaviour of the refractory mix. This is especially useful for low and high temperature applications.

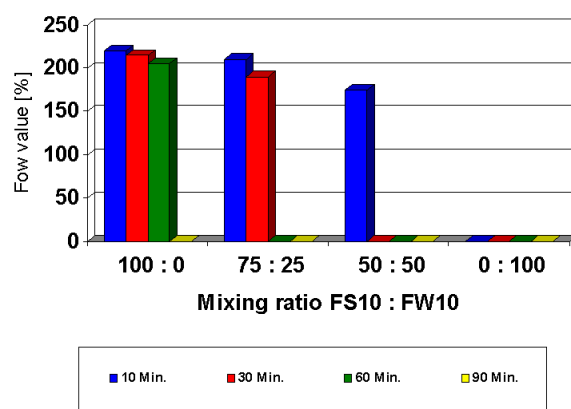
Results Temperature 41 ° F

Dosage: 0.1 % b.w.c.
Water content: 5.3 % b.w.c.



Results Temperature 68 ° F

Dosage: 0.1 % b.w.c.
Water content: 5.3 % b.w.c.



Technical Data

Physical shape	powder
Appearance	characteristic, yellowish to yellow
Drying loss, [%]	max. 2.0
Bulk density, [kg/m³]	300 to 500
pH-value (68 °F), 20 % solution	6.5 to 8.5
Dosage recommendation, [%] in relation to weight of refractory material	0.05 to 0.30
Packaging	33 lb. paper bag
Storage	store in the original packaging (resealed if opened), dry (not exceeding 60% RH) and cool (not exceeding 40 °C / 104 °F); no double stacking; may cake when exposed to pressure and friction
Shelf life	1 year
Safety	Please see MSDS

Castament® FS 10 and **Castament® FW 10** are dispersants based on latest polymer technology. These types typically contain certain side chains based on polyethylene glycol. Due to raw material synthesis of the polyethylene glycol, the nature of radical polymerization and the composition, it is known that this technical product has some natural colour variations from nearly colourless to yellowish up to slightly brownish. However, these colour variations have no influence on the application performance of the product. It is not known that the product colour changes significantly over time under normal storage conditions.

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This technical note is valid until replaced by a new issue.