

## Sapetin<sup>®</sup> D 27

## **Dispersant and plasticizer**

Chemical description	Sapetin D 27 is an almost neutral and odourless aqueous solution of modified phosphonic acid salts.	
Mode of action	Sapetin D 27 has a highly negative charge; it is adsorbed to filler and pigment surfaces and thus creates a repulsion effect between the single particles, so that highly concentrated dispersions with reasonable viscosity can be produced. Due to the high stability of Sapetin D 27 against hydrolysis a stable dispersing effect is ensured thus counteracting agglomeration.	
Specification (average values)	Solids content:approx. 45,0 %007 *)Density (20°C):approx. 1,41 g/cm³042 *)pH value:approx. 8,3008 *)Viscosity (20°C):approx. 90 mPas053 *)Solubility:freely miscible with waterAppearance:colourless to yellow coloured solution*) Internal method code – description available on request	
Properties	<ul> <li>Highly negative charge.</li> <li>Stable against hydrolysis even in alkaline media.</li> <li>Excellent dispersing effect in a broad pH value range.</li> </ul>	
	- Has chelating properties (e.g. bonding iron).	
	- Is fixed to filler and pigment surfaces.	
	- Particularly effective in dispersing silicate fillers, e.g. kaoline.	
	- Low addition rates suffice for high efficiency.	
	- Very low odour level, free of preservatives or organic solvents.	
Application	Sapetin D 27 is a dispersant for mineral fillers, e.g. kaolins, calcium carbonate minerals, metal oxide pigments, etc. It is also a plasticizer for self-levelling floor finishes, ceramic compounds, concrete-bonding mortars, cement finishing coats, and cement products. For the production of porcelain the addition of Sapetin D 27 allows to take the green moulded articles smoothly out of the gypsum moulds.	
Note	The optimum dosage for Sapetin D 27 can be determined by plotting a dispersant requirement curve. By this means, any tendency to flocculation can be counteracted.	
Storage	Sapetin D 27 must be protected from frost during storage. Its shelf life in the original containers is at least one year.	

Any technical application recommendations, verbal or in writing, provided by us in good faith to our customers/users for their assistance and on the basis of our experience and present state of knowledge are absolutely noncommittal. This also applies to any existing industrial property rights or foreign statutory provisions. Any recommendation of ours can therefore not be regarded as a legal relationship or contractual commitment, nor does it establish any sales contract deed of convenant. It is the buyer's responsibility to examine the suitability of our products for their intended application.

Labelling / Safety	Please see safety data sheet
Packaging	30 kg can 300 kg drum Container Road tanker
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