

DEUREX® F 64 A

	TECHNICAL INFORMATION			
Chemical description:	Fine powder lubricant pack based on PE coated with PTFE			
Applications:	PVC and other plastics Can be used in all U-PVC and P-PVC applications but also in C-PVC DEUREX® F 64 A is the best choice of lubricants especially in combination with calcium-zinc and tin stabilizers for rigid PVC products like window profiles, technical profiles and pipes.			
Properties:	External wax combination, highly effective Decreases torque, pressure and melt temperature, improves gloss Synergistic effect in combination with oxidized PE by reduction of melt viscosity Delays and avoids the formation of non-desirable deposits (plate out) on the extruder, on the screw, in the adaptor and in tooling Useful for high speed cable extrusion			
Typical dosages:	Depending on the rheological requirements: - 0.2 up to 0.5 phr for PVC - 0.2 up to 1.0 phr for C-PVC			
Technical data:	Colour: Delivery form:	White DEUREX® F 64 A = Finest powder, < 150 µm		
		Minimum	Maximum	Method
	Drop point (wax)*:	110 °C	120 °C	LV 12 (DGF M-III 3)
	Density (23 °C) (wax):	0.94 g/cm ³	0.95 g/cm³	LV 3 (DIN EN ISO 1183)
	Melting point (PTFE)*:	320 °C	340 °C	LV 5 (ASTM D4591)
	Density (23 °C) (PTFE):	2.15 g/cm ³	2.25 g/cm ³	LV 3 (DIN EN ISO 1183)
	Shelf life:	24 month (In closed, original containers in compliance with storage conditions)		
	* Part of certificate of analysis			
Approvals:	EU:Regulation (EU) 10/2011 dated 14. January 2011 USA: FDA 21 CFR §§ 175.105; 175.300; 176.170; 176.180 Approvals with regard to limitations and migration values in the end use application			
Alternative delivery forms:	DEUREX® F 60 Micro-Series – Micronized powder with 100% PTFE DEUREX® F 61 A – Double coated, PTFE and wax are completely embedded DEUREX® F 62 A – Fully coated, wax completely coated with PTFE DEUREX® F 63 A – Spot coated, stoichiometrically calculated amount of PTFE DEUREX® F 6001 W – Water-based dispersion of a micronized PTFE			

DEUREX® F 64 A is a special development for applications which tend to plate out on screws, in the adaptor and/or in the tooling. Plate out is the formation of non-desired deposits during extrusion or calendering. The practical experience has shown that it is possible to reduce plate out already at a dosage of 0.2 phr DEUREX® F 64 A up to 70 - 75% of the initial value. The product helps to extend the production time until it is necessary to clean the equipment.

This data sheet is based on our current knowledge and experience. In view of the individual factors that may affect processing and application, this data does not relieve users from the responsibility of carrying out their own tests and experiments, neither do they imply any legally binding assurance of certain properties. Existing industrial/commercial protective laws have to be considered by the recipient. Updated versions of the data sheet replace all formerly existing versions. ® - registered trademark by DEUREX



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DEUREX® F 64 A was investigated in a calcium-zinc stabilized window profile formulation containing:

- 100 phr S-PVC (k=67)
- 10 phr coated calcium carbonate, window profile grade
- 4 phr titanium dioxide, rutile, window profile grade
- 6 phr acrylic impact modifier
- 3 phr calcium-zinc stabilizer

The dry blends were mixed up to 120°C in a high speed hot mixer and cooled down to 45°C. After a relaxation time of >12 hours the dry blend was extruded on a parallel twin screw extruder KMD 35-26. The results are summarized in Fig. 1 to Fig. 4. It was also found that **DEUREX® F 64 A** is very similar to equal in its influence on rheology compared to a standard LDPE wax available on the market.

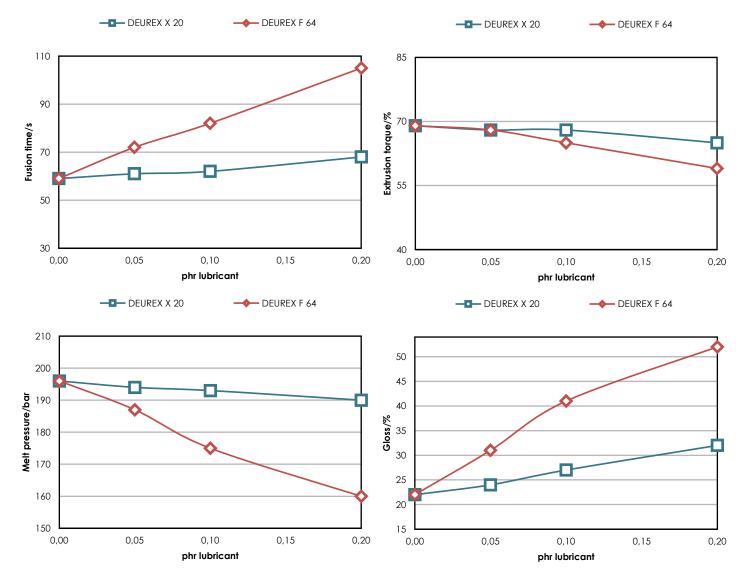


Fig. 1 to Fig. 4 Influence of the dosage of DEUREX[®] F 64 A in comparison to X 20 K on fusion time (Fig. 1), extrusion torque (Fig. 2), melt pressure (Fig. 3) and gloss (Fig. 4)

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