



FICHE TECHNIQUE TECHNICAL DATA SHEET

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IRONOR® F/ PS/ P/ S/ 100

Micaceous Iron Oxide / Oxyde de Fer Micacé
ISO 10601 – Premium Grade A

Description

IRONOR® is a natural mineral, lamellar barrier-pigment, issued from a special hematite's variety with high content of Fe₂O₃. IRONOR® is milled down and delaminated to fine powder; chemically resisting. Its appearance is thin flakes with a shining dark-grey metallic colour. Various grainsizes are offered, to comply with the thickness of the paint coating in different systems and to satisfy to the most demanding specifications in term of coating durability : protection of metallic works, marine paints, and so on.

Properties and Applications

IRONOR® brings to anticorrosive paints a very effective natural protection against environmental aggression (moisture, salt fog, UV, chemical attacks, ...). This barrier-effect is the consequence of the special disposition of the lamellar particles, which tend to orientate parallel to the surface and thus contribute to reinforce the paint film. This phenomenon is the result of the shape and chemical inertness of the flat crystal. It improves greatly the durability of the paint films. Decorative properties are also an additional asset, so called "wrought iron" aspect.

Chemical Analysis

Element	Unit(é)	Typical/Typique	Garanteed/Guaranti	Method / Méthode	Elément
Fe ₂ O ₃	%	92	Min. 85	ISO 1248	Fe ₂ O ₃
SiO ₂	%	2		X RF /	SiO ₂
CaO	%	0.0		Fluorescence X	CaO
Loss on Ignition	%	0.3		1050°C (1 h)	Perte au feu
Matter volatile at 105°C	%	0.1	Max. 0.5	ISO 787/2	Matières volatiles à 105°C

Physical Properties

Physical Property	Unit	Typical	Guaranteed	Method	Physical Property
Lamellar classification	%	85	> 65	ISO 10601	Classe de lamellarité
Matter soluble in water	%	0.1	Max 0.5	ISO 787/3	Solubilité dans l'eau
Specific density	g / cm ³	5		MOLAB 17	Densité réelle
Oil absorption	ml / 100g	12		ISO 787/5	Absorption d'huile
pH		7		ISO 787/9	pH

Grainsizing

	Typical / Typique			Garanteed / Guaranti			Method / Méthode
	> 45 µ	> 63 µ	> 106 µ	> 45 µ	> 63 µ	> 106 µ	
IRONOR® F	1 %		Traces	Max. 5 %		Max 0.1 %	Tamisage humide / Wet sieving
IRONOR® PS		4 %	0.05 %		Max. 5 %	Max 0.1 %	Tamis à dépression ALPINE / ALPINE air jet sieve
IRONOR® P		8 %	0.05 %		5 - 15 %	Max 0.1 %	
IRONOR® S		12 %	0.05 %		10 - 15%	Max 0.15 %	
IRONOR® 100		50 %	18 %				

Packaging

Bags on filmed pallets
Big-bags on filmed pallets

25 kg / 1 t
500 kg / 1 t

Conditionnement

Sacs sur palettes filmée
Big-bags sur palettes filmées

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