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Cosmoten[®] 2106

Cosmoten[®] 2106 is a biodegradable nonionic surfactant. This surfactant is a product based on renewable and natural sources. Cosmoten[®] 2106 is excellent candidate for use in systems also known as "Green Products".

Property	Cosmoten [®] 2106		
HLB	13.5		
Active content (%)	100.0		
Appearance at 25°C	Dark amber liquid		
Moisture Karl Fischer (%)	1.0 max.		
pH at 1 % in water	6.0-8.0		
Flash Point (°C)	>180.0		
Viscosity at 25°C (cP)	479.9		
Cloud point (°C)	68.0-77.0 ^A		
Ross-Miles foam test initial / 5 min (cm)+	10.0 / 8.5		
Surface tension (dynes/cm) ⁺⁺	32.8		

Table 1. Physical and Chemical properties.⁽¹⁾

⁽¹⁾ Typical properties, not to be construed as specification. ^A Alcoholic solution with NaCl at 0.5%. ⁺ Ross-Miles foam test, 0.1 wt% at 25°C. ⁺⁺ Fischer Tensiometer, 0.1 wt% at 25°C.





Characteristics

Solubility

Cosmoten[®] 2106 displays very good solubility in a wide range of common solvents.

Table 2. Solubility of Cosmoten[®] 2106 in solvents (5 wt% at 25°C).



Electrolytes

Cosmoten[®] 2106 has good solubility in electrolyte solutions.

Table 3. Solubility in electrolyte solution (10wt% Cosmoten[®] 2106, 5% at 25°C).

Electrolyte	Cosmoten [®] 2106
HCI, 5%	
NaCl, 5%	
Potassium Tripolyphosphate, 5%	
NaOH, 5%	

Water solubility

Cosmoten[®] 2106, on a wide range of concentrations, exhibit excellent solubility in water, being an ideal feature for their handling and formulation. Table 4. Solubility in water (wt% Cosmoten[®] 2106 in aqueous solution at 25°C).



Acid and alkaline stability

Cosmoten[®] 2106 has excellent strenght characteristics and stability in acid solutions, making it applicable in various manurfacturing processes.

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Figure 1. Acid resistance (1 wt% surfactant at 25°C)











Viscosity

Cosmoten® 2106, in aqueous solution, has viscosities which allow easy handling.





Biodegradability

Cosmoten[®] 2106 is biodegradable > 60 percent biodegradation within 28 days. ⁽²⁾

Suggested use

	Industry						
	Agrochemicals	Detergents & cleaning products	Textile	Paints	Leather - Tannery		
Cosmoten [®] 2106							
(2) Method based on: WISPA 40 CRF 796 3200-1995 ASTM D2667. Standard Test Method for Biodegradability of Alkylbenzene Suffonates. ASTM E1625. Standard Test Method for Determining Biodegradability of Organic Chemicals.							



For more information contact us:



Azahares No. 26 Col. Sta. María Insurgentes 06430 Del. Cuauhtémoc México, Ciudad de México



+ 52 (55) 1946 0500 + 52 (55) 1946 0559 Fax + 52 (55) 5583 8797



www.polakgrupo.com mail@polakgrupo.com