

Polyfon[®] H

Dispersant

Revised: 08/11/2015

Description and Typical Applications

Kraft lignin is a natural, renewable product derived from wood. Polyfon H is a low molecular weight kraft lignosulfonate with a low degree of sulfonation. Its strong adsorption to substrates provides very stable dispersions. Polyfon H is thermally very stable. Polyfon H is used as a primary dispersant in dry and water-based agricultural chemicals.

Typical Properties

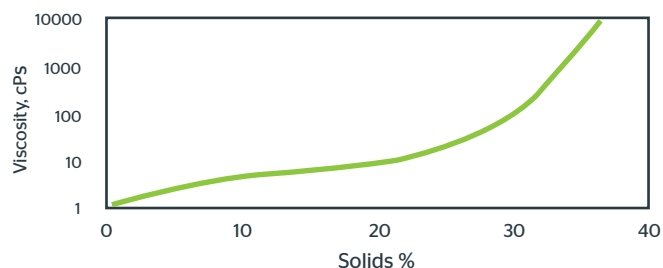
Physical Form	Free-flowing brown powder
Bulk density, lb/ft ³ (kg/L)	Loose 22 (0.354) Packed 28 (0.450)
Cation	Sodium
Degree of sulfonation*	0.7
Moisture, %	7.0
Na ₂ SO ₃ , %	3.5
pH (15% aqueous, 25°C)	9.8
Solubility in water	Complete
Surface tension (1% aqueous), mN/m	55
Total sulfur, %	4.2
Weight average molecular weight	4,300

* Moles of sulfonic acid groups per 1,000 unit weight of lignin

Shipping

Freight classification	Lignin pitch
Availability	1,102 lb (500 kg) net bags 55 lb (25 kg) net bags
Shipping point	Charleston, South Carolina, USA

Viscosity of Aqueous Solutions at 25°C



Regulatory Status

Polyfon H is exempt under 40 CFR 180.910 and 180.930.

CAS Registry No. 8061-51-6

Safety: Always refer to the Safety Data Sheet for detailed information on shipping, handling, storage, and use.

Important: The information provided herein is believed to be accurate and reliable, but is presented without guarantee on the part of Ingevity. Further, nothing contained herein shall be taken as an inducement to violate any patent rights.

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Polyfon[®] O

Dispersant

Revised: 08/11/2015

Description and Typical Applications

Kraft lignin is a natural, renewable product derived from wood. Polyfon O is a low molecular weight kraft lignosulfonate with a low degree of sulfonation. Its strong adsorption to substrates provides very stable dispersions. Polyfon O is used as a primary dispersant in dry and water-based agricultural chemicals.

Typical Properties

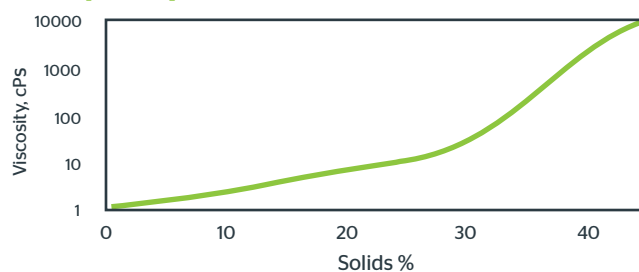
Physical Form	Free-flowing brown powder
Bulk density, lb/ft ³ (kg/L)	Loose 24 (0.385) Packed 30 (0.482)
Cation	Sodium
Degree of sulfonation*	1.2
Moisture, %	7
Na ₂ SO ₃ , %	5.0
pH (15% aqueous, 25°C)	10.3
Solubility in water	Complete
Surface tension (1% aqueous), mN/m	49
Total sulfur, %	6.8
Weight average molecular weight	2,400

* Moles of sulfonic acid groups per 1,000 unit weight of lignin

Shipping

Freight classification	Lignin pitch
Availability	1102 lb (500kg) net bags 55 lb (25 kg) net bags
Production site	Charleston, South Carolina, USA

Viscosity of Aqueous Solutions at 25°C



Regulatory Status

Polyfon O is exempt under 40 CFR 180.910 and 180.930.

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