

FlowSolve 212LN Dispersant

Product Information

Applications

FlowSolve 212LN is a medium molecular weight polymeric dispersant formulated in a high flash point, low naphthalenes content aromatic solvent.

FlowSolve 212LN is a high performance oil soluble dispersant for oil industry applications. This product is particularly effective in preventing or mitigating problems associated with asphaltene instability and fouling. FlowSolve 212LN can be utilised for crude oil asphaltene stabilisation, high temperature refinery antifoulants, fuel oil stabilisers and other specialised dispersant applications.

FlowSolve 212LN is normally applied by continuous injection. Typical treat rates range from 10 to 500 ppm dependant on the oil type and the severity of asphaltene deposition or fouling tendency. Laboratory testing and plant trials should be conducted for individual oils to establish an optimum treatment regime.

Features

- High performance dispersant properties effective in mitigating asphaltene instability and fouling
- Broad spectrum performance in a wide range of oils, both crude and refined products
- Low viscosity, low pour point and non - shear sensitive liquid
- No chlorine, sulphur, nitrogen, phosphorus or heavy metals
- Low naphthalenes content, non-hazardous
- High temperature stability (>300 C) for refinery process applications
- Suitable for formulation, blending or dilution to meet specific technical/operational requirements
- Compatible with other commonly used additives for multi-functional packages
- Long shelf life under recommended storage conditions
- Highly cost effective

Physical Properties

Appearance	Visual	Clear, brown liquid
Polymer Content	wt%	50
Density @ 15 C	g/cm3	0.94
Viscosity @ 40 C	cSt	116
Viscosity @ 20 C	cSt	303
Pour Point	C	-33
Flash Point PMCC	C	62

These data are typical values and should not be considered as specifications.

Other Information

FlowSolve 212LN is a member of a product range of dispersant additive technologies. It is recommended that FlowSolve 210 and FlowSolve 213 should also be evaluated in asphaltene dispersant or antifoulant programmes.

JD Horizons maintains Safety Data Sheets (SDS) for all FlowSolve® products. The SDS contains pertinent information required to protect employees and customers against any known health or safety hazards associated with FlowSolve® products. Always consult the relevant SDS before handling the product in the laboratory or in commercial scale operations.

For additional information not covered by this product bulletin contact JD Horizons directly or your local representative.

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Additional Physical Property Data

Temperature/Viscosity Profile –

Temperature (C)	Viscosity (cP)
40	125
20	255
15	286
10	392
5	543
0	697

These data are typical values and should not be considered as specifications.

Environmental Data

This is a preparation and information is estimated based on component data and that of similar products.

Toxicity	Marine Invertebrate / Acartia Tonsa	EC 50 (48 hours)	1,131 mg/l
	Marine Alga / Skeletonema Costatum	EC 50 (72 hours)	> 1,000 mg/l
	Juvenile Turbot / Scophthalmus maximus	LC 50 (96 hours)	> 1,000 mg/l
	Sediment Reworker / Corophium Volutator	LC 50 (10 days)	> 10,000 mg/kg
Biodegradation	OECD 306	Polymer	24.6 %
		Solvent	52.9 %
Bioaccumulation	OECD 117	Polymer	Log Po/w 3.6 - 5.1
		Solvent	Log Po/w 3.6 - 5.2

Transport, Packaging and Storage

Transport	See Safety Data Sheet for detailed information.
Packaging	Bulk road tankers/ISO tanks (approx. 20 mt capacity)
	1,000 litre Schutz type IBC and standard 205 litre steel drums
Storage	Store in a dry, well ventilated area, preferably a covered warehouse facility
	Ensure drum and bulk container seals remain intact until ready for use
	Nitrogen blanket recommended for bulk storage facilities
	Recommended storage temperature range from 10 to 30 C
Shelf Life	24 months

Additional information regarding transport, storage and handling is included in the FlowSolve 212LN SDS.

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