

Spredox D-175

Dispersant Applied in Alcohol-based NC Flexo Inks

Dispersant Applied in Alcohol-based NC-PU Gravure Inks

Introduction :

Spredox D-175 is a 50% active polymeric dispersant that exhibits excellent dispersing property for both carbon black and organic pigments. D-175 is soluble in alcohol solvents and has good compatibility with nitrocellulose resins, making it highly recommended for use in alcohol soluble NC inks and NC-PU gravure inks.

Appearance : Yellow Liquid

Solid Content : 50 wt.%

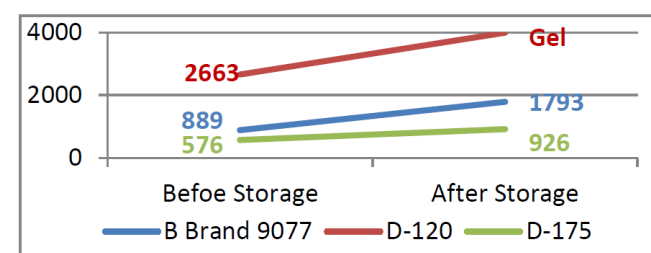
NC Flexo Inks

Viscosity Reduction and Storage Test

Milled Base	wt.%
Alcohol-soluble NC solution (24%)*	82
Dispersant (100% active)	3
Carbon black (Cabot 99R)	15

*Diluted with IPA

Viscosity Unit : cps



Storage: 10 days @55°C

Chromaticity Test

Full Color	Dosage (g)
Milled Base	1
Alcohol-soluble NC varnish	10

Reduced Color	Dosage (g)
Milled Base	1
Alcohol-soluble NC white ink	10

Full Color			Reduced Color		
D-120	B brand 9077	D-175	D-120	B brand 9077	D-175



	Full Color			Reduced Color		
	D-120	B brand 9077	D-175	D-120	B brand 9077	D-175
L*	9.6	8.9	8.1	33.5	34.2	33.4

NC-PU Gravure Inks

Viscosity Reduction Test

Milled Base	wt.%
Solvent (EAc)	38
Alcohol-soluble NC solution	40
Dispersant (100%)	2
Pigment	20

Mill until FoG reaches 5 μ m.

	S-20000		D-175	
Pigment	CB*	P.R.48:2	CB*	P.R.48:2
FoG	5 μ m	5 μ m	5 μ m	5 μ m
Status	Slightly thixotropic	Good flow	Good flow	Good flow

*Cabot 99R

Chromaticity Test

Full Color	wt.%
Milled Base	40
PU resin solution	16
Solvent (EAc)	44

Reduced Color	wt.%
Milled Base	42
Alcohol-soluble NC white ink	42
Solvent (EAc)	16

Full Color		Reduced Color	
S-20000	D-175	S-20000	D-175



CB*	Full Color		Reduced Color	
	S-20000	D-175	S-20000	D-175
L*	21.4	20.7	31.1	26.1
Color Strength	100	106	100	145

*Cabot 99R

Full Color		Reduced Color	
S-20000	D-175	S-20000	D-175



P.R.48:2	Full Color		Reduced Color	
	S-20000	D-175	S-20000	D-175
a*	65.8	65.6	52.4	52.6
Color Strength	100	97	100	101

Packaging and Storage

- ✧ 25kg / Pail
- ✧ 3 years under normal storage