Introduction

Our extensive nitrocellulose product range is designed to meet current and future application requirements. The company maintains its position at the forefront of the industry by substantial investment in research and development and a commitment to innovation and expertise.

NITROGEN CONTENT

Nitrogen Class	Nitrogen Content	Typical Application
High (H)	11.7% to 12.2%	Auto Refinish, Wood Lacquers
Medium (M)	11.2% to 11.7%	Printing Inks, Film Coatings
Low (L)	10.7% to 11.2%	Printing Inks

Nitrogen content influences the solubility and thermoplasticity of nitrocellulose. Low nitrogen grades of nitrocellulose have a higher solubility in alcohols and higher thermoplasticity. The selection of proper grade of nitrocellulose will depend on the solvent system and the thermoplasticity requirement.

VISCOSITY RANGE

Viscosity Class	Measurement
Medium (M)	10 gms in 100 ml of 95% v/v aqueous acetone
Low (L)	20 gms in 100 ml of 95% v/v aqueous acetone
Extra Low (X)	40 gms in 100 ml of 95% v/v aqueous acetone

The viscosity of the grade determines the strength and durability of the nitrocellulose film. Low viscosity grades are suitable for applications where high solids and gloss are primary requirements as in case of printing inks. The high viscosity grades provide better durability and resistance to films as desired in auto refinish paints.

DAMPING MEDIA

Solvents	Plasticizers	
Butyl Alcohol	Di-isobutyl phthalate	Epoxidised soyabean oil
Isopropyl Alcohol	Acetyl tri-butyl citrate	Di-isononyl phthalate
Ethyl Alcohol	Di-butyl phthalate	
Water wet	Octyl di-phenyl phosphate	

The damping medium in the nitrocellulose is the wetting agent that acts as a desensitizer.

Jomparat	ive Grades			
Euro Norms *	Nitrex Chemicals	Bergerac	Wolff	Green tree
BE		E 250		RS 1300
ŀΕ	HH 2-4	E 220		
5E		E 150		RS 300 sec
SE				RS 150 sec
'E	HM 40/60	E 140	E 1160	RS 75 sec
BE	HM 10/25	E 130		RS 35 sec
)E	HL 120-170	E 110	E 950	
0E		E 90		RS 15 sec
1E		E 80		
2E	HL 25-45		E 730	
3E				RS 5 sec
4E				
5E		E 60		
6E		E 40		
7E				
8E				
9E				
0E	HX 70/90			
:1E	HX 40/70			
2E		E 35	E 620	
3E	HX 30-50		E 560	RS 1/2 sec
4E	HX 20-30	E 32		
5E			E 510	
6E		E 27	E 400	
7E				
8E	HX 8-13			RS 1/4 sec
0E		E 24		RS 30 cps
1E	HX 5-8			
2E			E 375	
3E		E 20	E 360	
4E	HX 3-5	E 19	E 330	RS 10 cps
7E		E 15		
	MEDIUM NITROG	EN GRADE (% N = 11	.2 to 11.7%)	
7M		E 15	AM 700	
7M		E 15	AM 500	
8M	MX 8-13	E 15		
4M	MX 3-5	E 15	AM 330	
	MEDIUM NITROG	EN GRADE (% N = 11	.2 to 11.7%)	
3A	LX 30-50	A 27	A 600	
1A				SS 1/2"
7A			A 500	

28A

30A

31A

34A

LX 8-13

LX 5-8

LX 3-5

A 20

A 15

A 400

SS 1/4"

SS 1/8"