NITROCELLULOSE

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MAIN PRODUCTION RANGE

NITROCELLULOSE

- *POWDER GRADE*
- *DYNAMITE GRADE*
- *INDUSTRIAL GRADE*

POWDERS

- *SINGLE BASE*
- *DOUBLE BASE*
- *SPHERICAL*
- *ROCKET PROPELLANTS*
- *POWDER CHARGES*

COMBUSTIBLE COMPONENTS

- *CHARGE FOR CAL.125mm*

CELLULOID AND CELLULOID CONTAINERS

- *NCB FOR POWDERS*
- *NCD FOR DYNAMITES*
- *NCI FOR PAINTS AND LACQUERS ESTER SOLUBLE TYPES*
- *NCA FOR INK PAINTS AND LACQUERS ALCOHOL SOLUBLE TYPES*
- *NC-C FOR INK PAINTS AND LACQUERS ALCOHOL SOLUBLE TYPES*
- *NCC FOR CELLULOID*

SRPS ISO 9001
SORS 9000
SRPS ISO 14001
SRPS ISO 45001

NITROCELLULOSE

GRADE	POWDER NC	DYNAMITE NC
TYPE	NCB, GNC	NCD
NITROGEN CONTENT (%)	Upon request	12,00-12,50
DAMPING AGENT (%)	30-35 Water	

GRADE	INDUSTRIAL NITROCELLULOSE			
TYPE	NCI	NCA	NC-C	NCC
NITROGEN CONTENT (%)	11,85-12,40	11,30-11,70	10,70-11,30	10,70-11,10
DAMPING AGENT (%)	30-35 Ethanol, Isopropanol, Water			

VISCOSITY OF ALCOHOL SOLUBLE TYPES

EUROPEAN STANDARD	A 15	A 22	A 24	A 27	A 30	A 32	A 34
MB STANDARD	NCA 310 / NC-C 310	NCA 150 / NC-C 150	NCA 110 / NC-C 110	NCA 85 / NC-C 85	NCA 80 / NC-C 80	NCA 75 / NC-C 75	NCA 65 / NC-C 65

VISCOSITY OF ESTER SOLUBLE TYPES

EUROPEAN STANDARD	E 4	E 7	E 9	E 12	E 15	E 21	E 22	E 24	E 25	E 27	E 30	E 32	E 34
MB STANDARD	NCI 2100	NCI 1800	NCI 900	NCI 650	NCI 310	NCI 180	NCI 150	NCI 135	NCI 110	NCI 85	NCI 80	NCI 75	NCI 65

NCB NITROCELLULOSE FOR POWDERS

POWER GRADE, all according to MIL-DTL-244B			
GRADE A	**GRADE B**	**GRADE C**	**GRADE D, E**
Pyrocellulose Type I N(%)=12,50 - 12,70 Type II N(%)=12,45 - 12,75	**Guncotton** N(%)=13,35 min.	**Blend of Grade A and Grade B** Type I N(%)=13,10 - 13,20 Type II N(%)=13,20 - 13,30	N(%)=12,10 - 12,30

- QUALITY SPECIFICATION -

GENERAL CHARACTERISTICS

1. Appearance: Homogeneous white to slightly yellow without knots and mechanical impurities
2. Moisture content, mass % 28-32
3. Acetone insoluble matter content, mass % max. 0,4
4. Ash content, mass % max. 0,4
5. Ignition temperature, min.°C 180
6. Stability according to methyl violet test at 134,5°C minutes min. 30
7. Stability according to Abel test, at 80°C minutes min. 18

PARTICULAR CHARACTERISTICS

No.1	TYPE	BLEND OF TYPES	NITROGEN (%)	SOLUBILITY IN ETHER-ALCOHOL (2:1) (%)	FINENESS (cm3)	VISCOSITY (in 3% acetone) (mPas)	STABILITY BJ 132oC, max (cm3)
1.	NC1B	-	13,15-13,35	20 (max)	65 - 100	30 - 50	2,3
2.	NC1B	-	13,36-13,55	15 (max)	65 - 100	20 - 40	2,5
3.	NC2B	-	11,80-12,19	96 (min)	65 - 90	30 - 80	1,8
4.	NC2B	-	12,20-12,39	96 (min)	80 - 110	30 - 80	1,8
5.	NC2B	-	12,40-12,80	96 (min)	80 - 110	30 - 80	1,8
6.	NCB Sm	NC1(1), NC2(3)	12,80-12,99	40 - 55	65 - 100	30 - 50	2,0
7.	NCB Sm	NC1(2), NC2(4)	13,00-13,10	35 - 50	65 - 100	30 - 50	2,0
8.	NCB Sm	NC1(2), NC2(5)	13,11-13,20	30 - 45	65 - 100	25 - 45	2,2
9.	NCB Sm	NC1(2), NC2(5)	13,21-13,35	28 - 40	65 - 100	25 - 45	2,2
10.	GNC3	-	11,70-11,90	96 (min)	65 - 85	20 - 35	1,8
11.	GNC2	-	11,91-12,10	96 (min)	75 - 110	20 - 40	1,8
12.	GNC2	-	12,20-12,40	96 (min)	75 - 100	20 - 40	1,8
13.	GNC2	-	12,41-12,70	96 (min)	75 - 110	30 - 60	1,8
14.	GNC Sm	NC1(2), GNC2(12)	12,70-12,95	70 (max)	65 - 100	25 - 40	2,0
15.	GNC Sm	NC1(2), GNC2(12)	12,96-13,15	30 (min)	65 - 100	25 - 35	2,2
16.	GNC Sm	NC1(2), GNC2(13)	13,16-13,30	28 (min)	65 - 100	25 - 45	2,2

- NC1B; NC2B; GNC2; GNC3 – sub lots
- NCB Sm – Mixture (lot) of high nitrated and low nitrated sub lots, (used for single base powder production)
- GNC Sm - Mixture (lot), (used for double base powders and rocket fuels production)

NCD NITROCELLULOSE FOR DYNAMITES

- QUALITY SPECIFICATION -		
1.	Appearance	Pale yellow, no mechanical impurities
2.	Nitrogen content, %	12,00 - 12,50
3.	Solubility in ether – alcohol (2:1), % min.	98
4.	Viscosity by Höppler (3% NC in acetone), mPas	700 - 1500
5.	Fineness, max. cm^3	110
6.	Insolubility in acetone	traces
7.	Ash content, %	0,2
8.	Alkalinity as $CaCO_3$, max. %	0,2
9.	Stability at 132°C - Bergmann-Junk test, max. cm^3 NO/g	2,5
10.	Abel test at 80°C, min. minutes	18
11.	Ignition temperature, min. °C	180
12.	Moisture, %	35 ± 1

NCA, NC-C NITROCELLULOSE FOR INK PAINTS AND LACQUERS ALCOHOL SOLUBLE TYPES

- QUALITY SPECIFICATION -			
		NCA	NC-C
1.	Appearance	White, no mechanical impurities	White, no mechanical impurities
2.	Nitrogen content, %	11,30 - 11,70	10,70 - 11,30
3.	Viscosity by DIN 53179, mPas	350 - 450	350 - 450
4.	Viscosity by Höppler, mPas	0,70 - 2,60	0,70 - 2,60
5.	Solubility in ethanol (99 %), %	min. 99,00	min. 99,00
6.	Insolubility in acetone	traces	traces
7.	Ash content, max. %	0,4	0,4
8.	Stability at 132°C - Bergmann-Junk test, max. cm^3 NO/g	2,0	2,0
9.	Moisture, % - Content of ethanol / water, % - Content of IPA / water, %	35±2 or 30±2 min. 26 / max. 7 or min. 23 / max. 5 min. 30 / max. 3 or min. 25 / max. 3	35±2 or 30±2 min. 26 / max. 7 or min. 23 / max. 5 min. 30 / max. 3 or min. 25 / max. 3
10.	Colour and clearness of solution	clear	clear

NCI NITROCELLULOSE FOR PAINTS AND LACQUERS ESTER SOLUBLE TYPES

- QUALITY SPECIFICATION -		
1.	Appearance	White, no mechanical impurities
2.	Nitrogen content, %	11,85 – 12,40
3.	Viscosity by DIN 53179, mPas	375 - 425
4.	Viscosity by Höppler, mPas	0,75 – 210
5.	Solubility in ethanol (2:1), %	min. 99,00
6.	Insolubility in acetone	traces
7.	Ash content, max. %	0,4
8.	Stability at 132°C - Bergmann-Junk test, max. cm^3 NO/g	2,0
9.	Moisture, % - Content of ethanol / water, % - Content of IPA / water, %	35±1 or 30±1 min. 29 / max. 5 or min. 24 / max. 5 min. 31 / max. 3 or min. 26 / max. 3
10.	Colour and clearness of solution	clear

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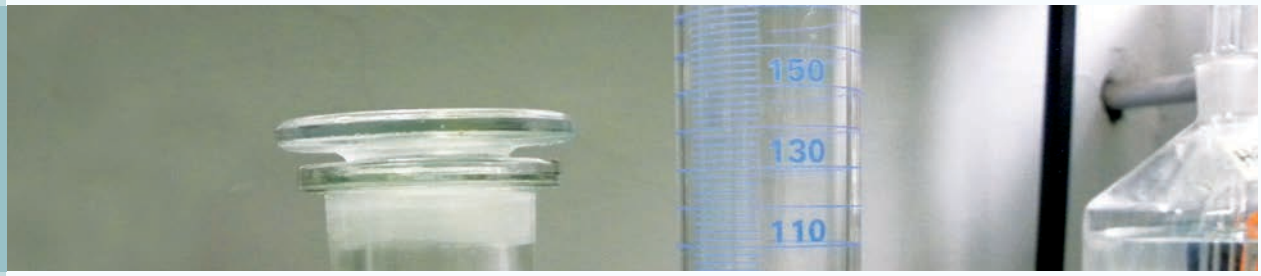

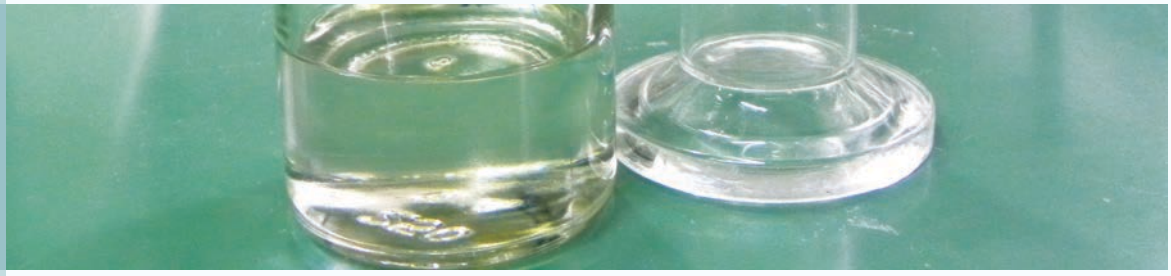

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