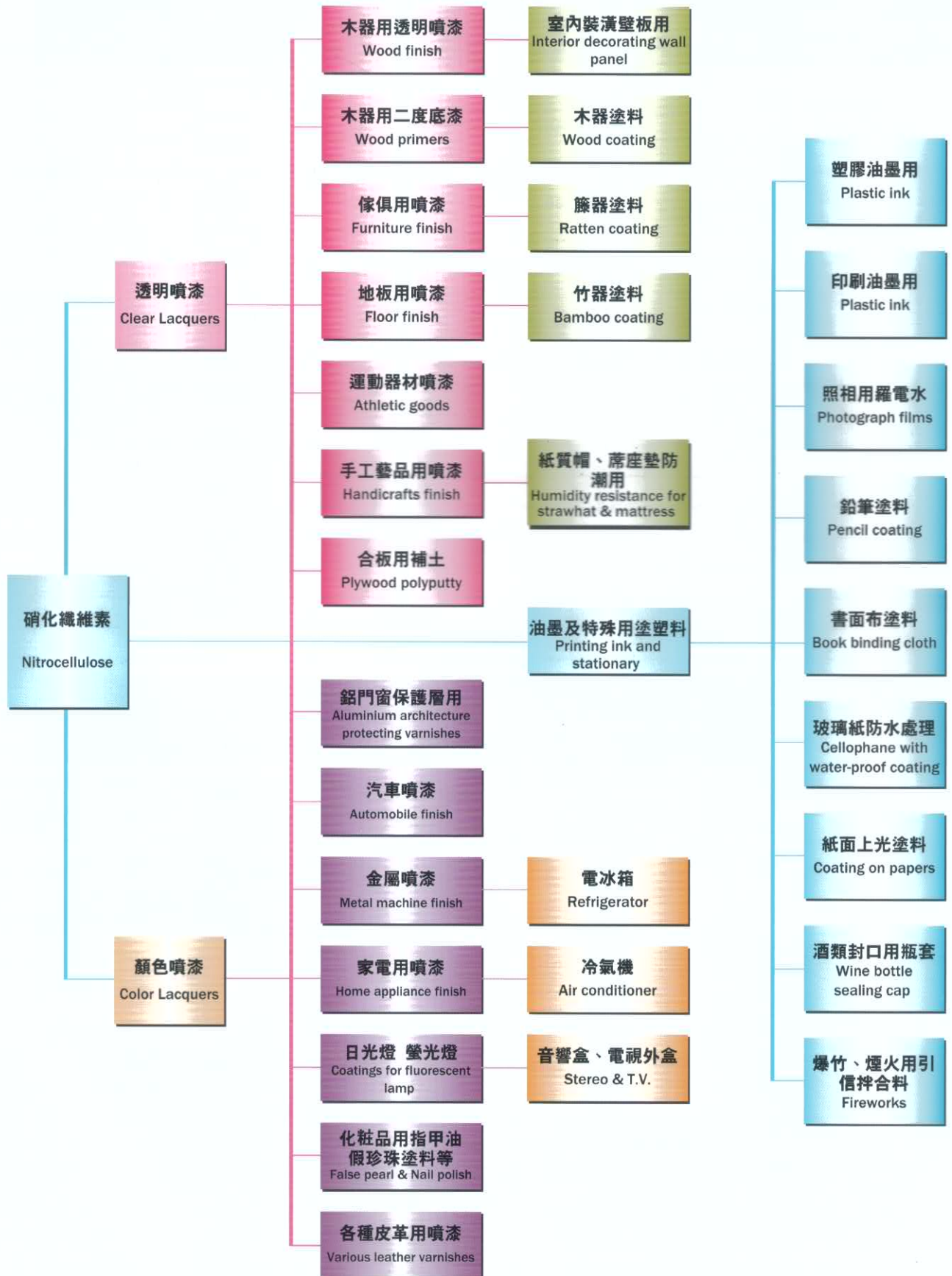


硝化纖維素一般用途

General Application of Nitrocellulose



硝化纖維素各國廠牌規格對照表

Equivalent List of TNC Products

| 歐洲標準 European standard | 台灣台硝 TNC Industrial | 法國BNC FRANCE BNC | 德國渥夫 GERMANY WOLFF | 英國ICI BRITAIN ICI |
|------------------------------|---------------------------|------------------------|--------------------------|-------------------------|
| 37 | | E15 | | |
| 36 | | | | |
| 35 | RS 1/16sec | | E330 | |
| 34 | | E19 | | DHX 3.5 |
| 33 | RS 1/8sec | E20 | E375 | |
| 32 | | | | |
| 31 | RS 1/4sec | | | |
| 30 | | E24 | | |
| 29 | | | | DHX 8-13 |
| 28 | RS 1/4sec | | E400 | FHX 8-13 |
| 27 | | E27 | | |
| 26 | | | | |
| 25 | | | E510 | |
| 24 | | E32 | | |
| 23 | RS 1/2sec | | E560 | DHX 30-50 |
| 22 | | E35 | | FHX 30-50 |
| 21 | | | E620 | |
| 20 | | | | |
| 19 | RS 1sec | E40 | | |
| 18 | | | | |
| 17 | | | | |
| 16 | | | | |
| 15 | | | E370 | |
| 14 | | | | |
| 13 | | | E840 | |
| 12 | RS 5-6sec | | | DHL 25-45 |
| 11 | | E80 | | |
| 10 | | | | |
| 9 | RS 20sec | E90 | E950 | DHL 120-170 |
| 8 | RS 40sec | | | DHM 10-25 |
| 7 | | E110 | | |
| 6 | RS 60sec | | E1160 | |
| 5 | RS 80sec | E130 | | |
| 4 | RS 100sec | E140 | E1250 | |
| 3 | RS 120sec | | | |
| 2 | RS 150-200sec | E160 | | |
| 1 | | | | |
| | | E220 | | |
| | | | E1440 | |
| | | E250 | | |

硝化纖維素種類及規格

Classification ; specification

RS Grade

| RS Grade | 黏度 Viscosity (sec) | 游離酸 Free Acid (%) | 氮量 Nitrogen Content (%) | 濕潤份 Moisture Content (%) | 水份 Water Content (%) | 黏度檢測標準 Viscosity measures the standard | | | |
|-------------|-----------------------|----------------------|----------------------------|-----------------------------|-------------------------|---|------|------|------------------------------|
| RS 1/16" | 1.0-1.6 | ≤0.05 | 11.5-12.2 | 30±2 | ≤4.0 | 25.0% NC : 75.0% solution | | | |
| RS 1/8" | 1.6-2.9 | ≤0.04 | | | | | | | |
| RS 1/4" | 3.0-5.9 | | | | | | | | |
| RS 1/2" | 3.0-5.0 | ≤0.03 | | | | 11.5-12.2 | 30±2 | ≤4.0 | 20.0% NC : 80.0% solution |
| RS 1" | 5.1-9.0 | | | | | | | | |
| RS 5" | 5.0-10 | | | | | | | | |
| RS 5~6" | 4.5-6.5 | | | | | | | | |
| RS 10" | 10-15 | | | | | | | | |
| RS 15"~ 20" | 15-20 | | | | | | | | |
| RS 20" | 15-25 | | | | | | | | |
| RS 20"H | 25-35 | | | | | | | | |
| RS 30"~ 40" | 30-40 | | | | | | | | |
| RS 40" | 35-50 | | | | | | | | |
| RS 60" | 50-70 | | | | | | | | |
| RS 60"~ 80" | 60-80 | | | | | | | | |
| RS 100" | 90-110 | | | | | | | | |
| RS 120" | 110-140 | | | | | | | | |

| Special Specification | 黏度 Viscosity (CPS) | 游離酸 Free Acid (%) | 氮量 Nitrogen Content (%) | 濕潤份 Moisture Content (%) | 水份 Water Content (%) | 黏度檢測標準 Viscosity measures the standard |
|-----------------------|-----------------------|----------------------|----------------------------|-----------------------------|-------------------------|---|
| RS 18~25CPS | 18~25 | ≤0.04 | 11.5-12.2 | 30±2 | ≤4.0 | 12.2% NC : 87.8% solution |
| RS 30~35CPS | 30~35 | | | | | |

- (1) RS、SS級及特殊規格依CNS2358 K6185做為標準檢驗方法。
- (2) 產品外觀為白色的片狀纖維。
- (3) 產品包裝方式可分為鐵桶及紙桶內裝量為100kg或120kg。
- (4) 產品規格簡介和說明如需進一步瞭解請詢問本公司營業專員或塗料化學品營業處。
- (5) 我們可以依據客戶要求並且經評估後生產不同於規格表簡介的產品。

- (1) Methods of analyzing TNC RS grade SS grade nitrocellulose is measured by the Taiwan national standards CNS2358 K6185.
- (2) Outlook of TNC nitrocellulose: flake with powder.
- (3) Package of TNC nitrocellulose: 100kg or 120kg per drum (fiber or metal).
- (4) For more details of specification please contact sales representative.
- (5) We also can produce other custom grade nitrocellulose after safety & technical assessments.

硝化纖維素種類及規格

Classification ; specification

SS Grade

| SS Grade | 黏度 Viscosity (sec) | 游離酸 Free Acid (%) | 氮量 Nitrogen Content (%) | 濕潤份 Moisture Content (%) | 水份 Water Content (%) | 黏度檢測標準 Viscosity measures the standard |
|----------|-----------------------|----------------------|----------------------------|-----------------------------|-------------------------|---|
| SS 5~6" | 4.5-6.5 | ≤ 0.04 | 10.7~11.2 | 30±2 | ≤ 4.00 | 12.2% NC : 87.8% solution |
| SS 1/2" | 3.0-5.0 | | | | | 20.0% NC : 80.0% solution |
| SS 1/4" | 3.0-5.9 | ≤ 0.04 | | | | 25.0% NC : 75.0% solution |
| SS 1/16" | 1.0-1.6 | ≤ 0.05 | | | | |

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可塑劑硝化棉片

Plasticized Nitrocellulose

台硝硝化棉片

硝化棉片(又名：硝化纖維素清漆片、含可塑劑硝化纖維素、清漆片)

台硝為符合美國聯邦環保法令第48848~87" 40CFR part 59, subpart D, 63FR 48848號，特別研發出"零揮發有機溶劑"的硝化棉片。

現有標準硝化棉片產品有

- ESO棉片
- DINP棉片
- ATBC棉片(無毒性)

本硝化棉片有下列特性

- 不含有機揮發物
- 不含醇類，和PU相容
- 80%超高硝化棉固成份
- 含水率極低，高亮度

應用於油墨、木器塗料及添加在水性PU預乳化製程。

Plasticized Nitrocellulose

TNC also provide customer the zero volatile organic compound (non-VOC) plasticized NC chips to comply with the United States "Federal Register 48848~87" 40CFR part 59, subpart D, 63FR 48848, VOC content limits.

The plasticized NC is a non-gelatin, free of alcohol, free of volatile organic compound (VOC), extreme low water content, with high gloss property nitrocellulose chip for the wood lacquer and also especially PU emulsion.

硝化棉片種類及規格 Classification & Specification of plasticized NC chip

| 名稱 Product name | 標準可塑劑 Standard Plasticizer | 黏度 以含水棉做落球實驗 Viscosity(sec) | 包裝 Packing |
|---|----------------------------------|---|---------------|
| ESO-18~25cps 棉片 ESO-Plasticized 18~25cps Chip | ESO | 1.7~2.2秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| DINP-18~25cps 棉片 DINP- Plasticized 18~25cps Chip | DINP | 1.7~2.2秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| ATBC-18~25cps 棉片 ATBC- Plasticized 18~25cps Chip ATBC | ATBC | 1.7~2.2秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| ESO-1/4秒(34~66cps) 棉片 ESO- Plasticized 1/4sec(34~66cps) Chip | ESO | 3.0~5.9秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| DINP-1/4秒(34~66cps) 棉片 DINP- Plasticized 1/4 sec (34~66cps) Chip | DINP | 3.0~5.9秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| ATBC-1/4秒(34~66cps) 棉片 ATBC- Plasticized 1/4 sec (34~66cps) Chip | ATBC | 3.0~5.9秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| ESO-1/2秒棉片 ESO- Plasticized 1/2 sec Chip | ESO | 3.0~5.0秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| DINP-1/2秒棉片 DINP- Plasticized 1/2 sec Chip | DINP | 3.0~5.0秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| ATBC-1/2秒棉片 ATBC- Plasticized 1/2 sec Chip | ATBC | 3.0~5.0秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| ESO-5~6秒棉片 ESO- Plasticized 5~6 sec Chip | ESO | 4.5~6.5秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| DINP-5~6秒棉片 DINP- Plasticized 5~6 sec Chip | DINP | 4.5~6.5秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |
| ATBC-5~6秒棉片 ATBC- Plasticized 5~6 sec Chip | ATBC | 4.5~6.5秒 sec (as Viscosity of water-damped nitrocellulose) | 100KG |

棉漿

NC solution

客製化生產

We produce based on customer's request of formula and specification.



硝化纖維素一般安全通則

General Safety Rules of Nitrocellulose

1. 在儲存或處理硝化纖維素的場所或附近，嚴禁火種。
2. 不可把硝化纖維素和他種危險品，儲放於同一儲存場所。
3. 如萬不得已，必須對有關的機械設備或房屋結構施行電焊或氣焊工作時，必須先把硝化纖維素搬移到有防火設施的安全處所。
4. 如須修理殘留有硝化纖維素或有殘留顧慮的機械設備，器具，容器等時，必須在安全的場所，且須完全除清硝化纖維素後始可施工。
5. 存有硝化纖維素的容器，必須密封保存。
6. 不可讓內裝有硝化纖維素的容器，受到日光的直接照射。
7. 須注意儲存硝化纖維素場所的溫度。如發現溫度升高時，須採通風或灑水等適當的措施使溫度降低。
8. 在搬動內裝有硝化纖維素的容器時，不可有拖拉衝擊或重重落地的動作。
9. 在施行作業中如有硝化纖維素散落時，須徹底清掃乾淨並放入附有蓋子的容器內加水封存後再作廢棄處理。

1. Fire is absolutely forbidden around the site of storing or disposing the nitrocellulose.
2. Nitrocellulose should not be stored together with other dangerous materials.
3. Before proceeding the welding work , nitrocellulose has to be moved away to a safe place.
4. When repairing the machinery, equipment , containing vessels etc., nitrocellulose residue attached on these articles has to be removed first.
5. The container which is loaded with nitrocellulose has to be tightly sealed.
6. The container which is loaded with nitrocellulose should be avoided from exposing under the sun.
7. Always pay attention to the temperature of the nitrocellulose storing site, when the temperature goes up then the air should be more ventilated or using water spraying to keep the temperature cool down.
8. When the container is loaded with nitrocellulose, any action of draying, pulling, heavy striking, heavy falling on the ground should be avoided.
9. Nitrocellulose might be scattered around the work site during operation which should be collected by placing into a container with water then duly covered, and these nitrocellulose should be treated as waste.

