Reg. No: 00610 Issue: 1 Doc. Date: 11.2007 English Version



NOBLAZE

NNT

PRODUCT INFORMATION

DESCRIPTION

NOBLAZE [®] NNT is an efficient cyclic ester phosphate flame retardant and it is specially formulated for polyester. It is non-corrosive with high phosphorus content and excellent water solubility. NOBLAZE NNT can durable for 50 times laundry washing at a temperature of 140° F.

CHEMICAL NAME Cyclic Ester Phosphate Flame Retardant

SPECIFICATIONS

PARAMETERS	LIMITS
Appearance	Colorless to yellowish clear liquid.
Active Content, %	93 min
рН	1.5 - 5.5
Specific Gravity, (at 25°C)	1.10 - 1.40

TYPICAL PROPERTIES

Phosphorous Content, Weight % 18.5-21.0%

CHARACTERISTICS

- Outstanding flame resistant with more than 50 times laundry washing.
- Easy to operate.
- Friendly to environment, it is non-toxic, low volatility and safe to use.
- Show excellent performance with using small amount of chemical.
- After flame retardant treatment, the character of textile still is maintained.

PACKING 250kg per drum

PLANET CHEMICALS

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APPLICATIONS

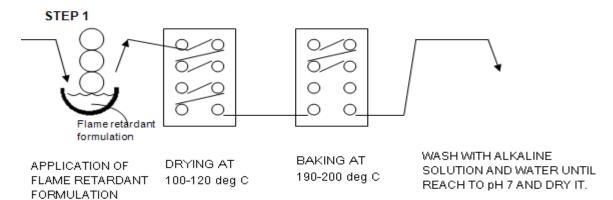
1) Alkaline Pre-Treatment:

- Since absorbable of polyester is weak, alkaline pre-treatment is suggested to do before flame retardant treatment.
- Prepare a mixture solution which contains 5% NaOH solution (10-30g/l) and 1-2g/l cationic surface active agent then soak the cloth into mixture. Immerse the cloth at 95-100°C for 30-50 minutes. This method is to remove soils and oil in the cloth.
- After that, wash the cloth with water until it reaches to pH 7 and dry it.

2) Flame Retardant Treatment:

 Different types of fabric will use different amount of chemical, an ideal recipe is suggested as below:

Fabric Weight (g/m ²)	500-700 (Thick Cloth)	100-500 (Thin Cloth)
NOBLAZE NNT (g/L)	155-300 g/L	200-400 g/L
Penetrating Agent JFC (g):	1	1
Water (g)	700-845 g/L	600-800 g/L



- 1. Prepare water in a tank and add NOBLAZE NNT based on types of fabric. The optimal chemical level is 0.16-0.2kg per 1kg of cloth.
- 2. The cloth will go through the flame retardant chemical tank before going to oven chamber.
- 3. In oven chamber, the cloth will undergo drying process at 100-120°C for 1-2min and baking process at 190-200°C for 1-3 min.
- 4. After flame retardant treatment, wash the cloth with 10% NaOH or Na₂CO₃, and water until the it reaches to pH 7 and dry it. With all these procedures, the flame retardant treatment is completed.

TRANSPORT INFORMATION

Non-dangerous cargo.

Planet Chemicals Pte Ltd