

LOCKNUTS WITHOUT COLLAR - POLYAMIDE PA6 OR PA6.6
Annexe A:

Chemical agent	Level of resistance				Note
	Resistant	Limited resistance	Not resistant	Soluble	
Acetaldehyde					Swelling
Acetylene					
Acetone					
Acetic Acid, 30% solution					
Acetic Acid, 5% solution					
Acrylic Acid					
Butyric Acid, aqueous					
Butyric Acid, concentrated					
Citric Acid					
Hydrochloric Acid					
Hydrochloric Acid, concentrated					
Hydrochloric Acid, 40% solution					
Hydrochloric Acid, 1% aqueous solution					
Formic Acid, 10% acid solution					
Formic Acid, 85% acid solution					
Phosphoric Acid, 10% aqueous solution					
Phosphoric Acid, 30 % aqueous solution					
Hydriodic Acid					
Lactic Acid					
Nitric Acid, 1% aqueous solution					
Nitric Acid, 50% aqueous solution					
Oleic Acid (commercial)					
Oxalic Acid, 10% aqueous solution					
Perchloric Acid					
Hydrogen Sulfide					
Hydrogen Sulfide, 10% aqueous solution					
Hydrogen Sulfide, 30% aqueous solution					
Hydrogen Sulfide, 96% aqueous solution					Solvent
Sulfurous Acid					
Tartaric Acid					
Trichloro Acetic Acid					
Water					
Sea Water					
Hydrogen Peroxide, 10 % aqueous solution					Oxidising agent
Allyl Alcohol					
Benzyl Alcohol					
Ethyl Alcohol, concentrated					Swelling
Methyl Alcohol					
Propyl Alcohol					Swelling
Alcohols of fatty acid					
Cinnamic Aldehyde					
Furan Aldehyde					
Zinc Halide, aqueous solution					
Liquid Ammonia					
Carbon Dioxide					
Sulfurous Anhydride					

Cembre SpA

Via Serenissima, 9 - 25135 Brescia (Italy)
Tel.: +39 030 36921 - Fax: +39 030 3365766
Web: www.cembre.com - Email: info@cembre.com

Prepared by: Marketing dept.

Date: 19/07/2012

LOCKNUTS WITHOUT COLLAR - POLYAMIDE PA6 OR PA6.6
Annexe A:

Aniline		Yellow			
Nitrogen	Blue				
Photographic fixing bath					
Ground bacteria (anaerobic)	Blue				
Benzaldehyde			Red		
Benzene	Blue				
Petrol super grade	Blue				
Beer	Blue				
Bitumen	Blue				
Bromine			Red		
Butanol	Blue				
Caprolactam, melted at 75 °C		Yellow			
Potassium Carbonate, saturated solution	Blue				
Zinc Carbonate	Blue				
CFC	Blue				
Ketone	Blue				
Cyclohexane	Blue				
Cyclohexanone	Blue				
Chloral Hydrate				Green	
Chloramine			Red		
Sodium Chloride, aqueous solution			Red		Oxidising agent
Chlorobenzene	Blue				
Chloroform		Yellow			
Calcium Chloride, alcohol solution				Green	
Calcium Chloride, aqueous solution	Blue				
Iron Chloride, aqueous acid		Yellow			
Iron Chloride, neutral, aqueous	Blue				
Potassium Chloride, 10% aqueous solution	Blue				
Sodium Chloride, saturated solution	Blue				
Thionyl Chloride			Red		
Vinyl Chloride		Yellow			
Fuel for petrol engine	Blue				
Creosol				Green	Solvent
Dibutyl Phthalate	Blue				
Potassium Dichromate		Yellow			
Diethylene-Glycol		Yellow			
Dimethylamine	Blue				
Dimethylformamide		Yellow		Green	Solvent at high temperature
Dimethyl Sulfoxide		Yellow		Green	Solvent at high temperature
Dioxane	Blue				
Disinfectant with active chlorine			Red		Oxidizing agent
Carbon Disulfide	Blue				
E 6705	Blue				
Heptane					
Benzene Hexachloride	Blue				
Hexane	Blue				
Ethane					
Ether					
Diethyl Ether	Blue				
Ethyl Acetate	Blue				
Ethylene	Blue				

Cembre SpA

Via Serenissima, 9 - 25135 Brescia (Italy)
Tel.: +39 030 36921 - Fax: +39 030 3365766
Web: www.cembre.com - Email: info@cembre.com

Prepared by: Marketing dept.

Date: 19/07/2012

LOCKNUTS WITHOUT COLLAR - POLYAMIDE PA6 OR PA6.6
Annexe A:

Phenol					Solvent
Fertilizers	Blue				
Fluorine				Red	
Brazing flux				Red	
Formaldehyde, 10% aqueous solution		Yellow			Contains: Zinc Halide
Formamide		Yellow			See: Dimethylformamide
Phosphate	Blue				
Phthalates	Blue				Plasticiser
Butane gas	Blue				
Chlorine gas			Red		Oxidising agent
Inert gases	Blue				
Lighting gas	Blue				
Diesel fuel for trucks	Blue				
Gel	Blue				
Glycerine	Blue				
Ethylene Glycol		Yellow			
Ethylene Glycol		Yellow			
Grease, wax	Blue				
Cattle fat	Blue				
Hydrogen	Blue				
Calcium Hydroxide, aqueous solution	Blue				
Potassium Hydroxide, concentrated & in solution		Yellow			
Ink	Blue				Verify colour absorbtion
Calcium Hypochlorite			Red		
Sodium Hypochlorite			Red		Oxidising agent
Isooctane	Blue				
Isopropanol (Isopropyl alcohol)	Blue				Swelling
Methane	Blue				
Mould	Blue				
Ammonium Nitrate, saturated solution	Blue				
Silver Nitrate, aqueous solution					
Hydraulic oil	Blue				Tests must be performed in operating temperature conditions
Lubricating oil	Blue				
Mineral oil	Blue				
Gearbox oil	Blue				
Fuel oil	Blue				
Citrus oil	Blue				
Camphor oil	Blue				
Colza oil (Rape seed oil)	Blue				
Linseed oil	Blue				
Fish oil	Blue				
Turpentine oil	Blue				
Motor oil	Blue				
Brake fluid	Blue				
Ethylene Oxide	Blue				

Cembre SpA

Via Serenissima, 9 - 25135 Brescia (Italy)
Tel.: +39 030 36921 - Fax: +39 030 3365766
Web: www.cembre.com - Email: info@cembre.com

Prepared by: Marketing dept.

Date: 19/07/2012

LOCKNUTS WITHOUT COLLAR - POLYAMIDE PA6 OR PA6.6**Annexe A:**

Oxygen			At 3 bar	
Ozone, 20 ppm			Oxidising agent	
Paraffin				
Potassium Perchlorate , 2% aqueous solution			Oxidising agent	
Potassium Permanganate, 10% aqueous solution			Oxidising agent	
Petroleum				
Natural Petroleum Gas				
Propane				
Cellulose covering				
Blood				
Silicon fluid				
Caustic soda, 10% aqueous solution				
Caustic soda, concentrated aqueous solution				See: Potassium Hydroxide , solution
Soda, aqueous solution				
Soda, saturated solution				
Sodium Trisulfate, solution 200g/l				
Ammonium Sulfate, saturated solution				
Copper Sulfate, saturated solution				
Sodium Sulfide, saturated solution				
Agfa processing solution				
Photographic processing solution				
Sweet solution pH 4.5				
Sweet solution pH 9.5				
Solvent for dry wash with boiling point between 100-140 °C				
Styrene				
Fruit juice				
Carbon Tetrachloride				
Carbon Tetrafluoride				
Tincture of Iodine (commercial)			At 3 bar	
Toluene				
Trichloroethylene				
Triethanolamine				
Urea, 20% aqueous solution				
Urine				
Water vapour				
Xylene				
Sugar, saturated solution				

Cembre SpA

Via Serenissima, 9 - 25135 Brescia (Italy)
 Tel.: +39 030 36921 - Fax: +39 030 3365766
 Web: www.cembre.com - Email: info@cembre.com

Prepared by: Marketing dept.

Date: 19/07/2012