TITAN HYPO

Product definition and application

Highly alkaline disinfectant based on sodium hypochlorite. For use in food, beverage and dairy industries and for water treatment. Approved for drinking water treatment by Mattilsynet.

Use disinfectants safely. Always read the label and product information before use.

User instructions

Objects/surfaces: Apply 0,5-1% Titan Hypo (equal to 300-650 ppm as active chlorine) on well cleaned objects/surfaces. Let it act for 5 – 10 minutes.

Bottle washing machines: Add directly to the water or through dosing equipment. Dosing: 30-100 gram per 1000 liters of water (4–13 ppm active chlorine).

Treatment of wastewater: Add directly into the wastewater in a concentration of at least 0.05% equivalent to approx. 65 ppm active chlorine.

Treatment of drinking water: Add to water until concentration of active chlorine is 0,5 mg/l reached. Free chlorine above 0,05 mg/l after at least 30 minutes contact time normally provides a satisfactory hygienic barrier against bacteria and viruses. The maximum permitted dosage is 5 mg / l.

Product properties

Foaming ability:	Non foaming
Solubility:	Completely soluble in water
pH:	ca. 13,5 (conc.), ca. 11 (1% solution)
Density:	ca. 1,2 kg/l
Viscosity:	ca. 5 mPas
Reactivity:	Contact with acids or ammonia liberates irritating and toxic gases.
Corrosion:	Testing is done with a 0,5% solution of Titan Hypo at 20°C with 12 hours' immersion. Stainless steel is not influenced, but Titan Hypo may, on prolonged contact time and with high temperature (over 50°C), cause corrosion due to content of chloride (NaCl). Copper is slightly corroded, but is discolored. Aluminum is highly corroded with greyish-brown discoloration.

Storing conditions and durability

Store dark and cool, but frost proof. Avoid sunlight and high temperatures. Should be used within one year of production. Heat and sunlight will reduce the level of available chlorine.

Efficacy test (only available in Norwegian)

Oversikt over EN-tester og organismer for Titan Hypo, samt konsentrasjoner og virketider for beståtte tester

Standard	Konsentrasjon [NaOCl]	Virketid	Type organismer	Organismer	Testbeskrivelse
EN 1276	150 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid suspensjonstest, 20 °C og clean. Krav til log reduksjon: ≥ 5 log
	75 ppm	30 min	Bactericidal	*Staphylococcus aureus*	
	150 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	75 ppm	30 min	Bactericidal	*Enterococcus hirea*	
	150 ppm	5 min	Bactericidal	*Escherichia coli*	
	75 ppm	30 min	Bactericidal	*Escherichia coli*	
	150 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	75 ppm	30 min	Bactericidal	*Pseudomonas aeruginosa*	
	600 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid suspensjonstest, 20 °C og dirty (3,0 g/L bovine albumin). Krav til log reduksjon: ≥ 5 log
	450 ppm	30 min	Bactericidal	*Staphylococcus aureus*	
	600 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	450 ppm	30 min	Bactericidal	*Enterococcus hirea*	
	600 ppm	5 min	Bactericidal	*Escherichia coli*	
	450 ppm	30 min	Bactericidal	*Escherichia coli*	
	600 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	450 ppm	30 min	Bactericidal	*Pseudomonas aeruginosa*	
	600 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid suspensjonstest, 20 °C og dirty (3,0 g/L bovine albumin + 3,0 ml/L sheep erythrocytes). Krav til log reduksjon: ≥ 5 log
	600 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	600 ppm	5 min	Bactericidal	*Escherichia coli*	
	600 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	75 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid suspensjonstest, 20 °C og dirty (10 g/L skimmed milk). Krav til log reduksjon: ≥ 5 log
	60 ppm	30 min	Bactericidal	*Staphylococcus aureus*	
	75 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	60 ppm	30 min	Bactericidal	*Enterococcus hirea*	
	75 ppm	5 min	Bactericidal	*Escherichia coli*	
	60 ppm	30 min	Bactericidal	*Escherichia coli*	
	75 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	60 ppm	30 min	Bactericidal	*Pseudomonas aeruginosa*	
	4500 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid suspensjonstest, 20 °C og dirty (10 g/L bovine albumin + 10 g/L yeast extract). Krav til log reduksjon: ≥ 5 log
	4500 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	4500 ppm	5 min	Bactericidal	*Escherichia coli*	
	4500 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
EN 1650	300 ppm	5 min	Yeasticidal	*Candida albicans*	Kvantitativ fungicid/yeasticid suspensjonstest, 20 °C og clean. Krav til log reduksjon: ≥ 4 log
	150 ppm	30 min	Yeasticidal	*Candida albicans*	
	900 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	600 ppm	30 min	Fungicidal	*Aspergillus brasiliensis*	
	1500 ppm	5 min	Yeasticidal	*Candida albicans*	Kvantitativ fungicid/yeasticid suspensjonstest, 20 °C og dirty (3,0 g/L bovine albumin). Krav til log reduksjon: ≥ 4 log
	600 ppm	30 min	Yeasticidal	*Candida albicans*	
	7200 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	2400 ppm	30 min	Fungicidal	*Aspergillus brasiliensis*	
	300 ppm	5 min	Yeasticidal	*Candida albicans*	Kvantitativ fungicid/yeasticid suspensjonstest, 20 °C og dirty (10 g/L skimmed milk). Krav til log reduksjon: ≥ 4 log
	60 ppm	30 min	Yeasticidal	*Candida albicans*	
	1200 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	600 ppm	30 min	Fungicidal	*Aspergillus brasiliensis*	
	1800 ppm	5 min	Yeasticidal	*Candida albicans*	Kvantitativ fungicid/yeasticid suspensjonstest, 20 °C og dirty (3,0 g/L bovine albumin + 3,0 ml/L sheep erythrocytes). Krav til log reduksjon: ≥ 4 log
	900 ppm	30 min	Yeasticidal	*Candida albicans*	
	5400 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	4800 ppm	30 min	Fungicidal	*Aspergillus brasiliensis*	
	3000 ppm	5 min	Yeasticidal	*Candida albicans*	Kvantitativ fungicid/yeasticid suspensjonstest, 20 °C og dirty (10 g/L bovine albumin + 10 g/L yeast extract). Krav til log reduksjon: ≥ 4 log
	3600 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	

Oversikt over EN-tester og organismer for Titan Hypo, samt konsentrasjoner og virketider for beståtte tester

EN 13697	300 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid og fungicid/yeasticid overflatetest, 20 °C og clean. Krav til log redukajon: - Bactericidal ≥ 4 log - Yeasticidal/Fungicidal ≥ 3 log
	300 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	300 ppm	5 min	Bactericidal	*Escherichia coli*	
	300 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	200 ppm	5 min	Yeasticidal	*Candida albicans*	
	2000 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	1500 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid og fungicid/yeasticid overflatetest, 20 °C og dirty (3,0 g/L bovine albumin + 3,0 ml/L sheep erythrocytes). Krav til log redukajon: - Bactericidal ≥ 4 log - Yeasticidal/Fungicidal ≥ 3 log
	1500 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	1500 ppm	5 min	Bactericidal	*Escherichia coli*	
	1500 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	750 ppm	5 min	Yeasticidal	*Candida albicans*	
	3000 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	1250 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid og fungicid/yeasticid overflatetest, 20 °C og dirty (3,0 g/L bovine albumin). Krav til log redukajon: - Bactericidal ≥ 4 log - Yeasticidal/Fungicidal ≥ 3 log
	1250 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	1250 ppm	5 min	Bactericidal	*Escherichia coli*	
	1250 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	750 ppm	5 min	Yeasticidal	*Candida albicans*	
	3000 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	12000 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid og fungicid/yeasticid overflatetest, 20 °C og dirty (10 g/L bovine albumin + 10 g/L yeast extract). Krav til log redukajon: - Bactericidal ≥ 4 log - Yeasticidal/Fungicidal ≥ 3 log
	12000 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	12000 ppm	5 min	Bactericidal	*Escherichia coli*	
	12000 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	2500 ppm	5 min	Yeasticidal	*Candida albicans*	
	6000 ppm	5 min	Fungicidal	*Aspergillus brasiliensis*	
	4000 ppm	5 min	Bactericidal	*Staphylococcus aureus*	Kvantitativ baktericid og fungicid overflatetest, 20 °C og dirty (10 g/L skimmed milk). Krav til log redukajon: - Bactericidal ≥ 4 log - Yeasticidal/Fungicidal ≥ 3 log
	4000 ppm	5 min	Bactericidal	*Enterococcus hirea*	
	4000 ppm	5 min	Bactericidal	*Escherichia coli*	
	4000 ppm	5 min	Bactericidal	*Pseudomonas aeruginosa*	
	250 ppm	5 min	Yeasticidal	*Candida albicans*	
EN 14476	350 ppm	5 min	Virucidal	*Adenovirus Type 5*	Kvantitativ virucid suspensjonstest, 20 °C og clean. Krav til log reduksjon: ≥ 4 log
	500 ppm	5 min	Virucidal	*Poliovirus Type 1*	
	350 ppm	5 min	Virucidal	*Murine norovirus*	
	70 ppm	30 min	Virucidal	*Murine norovirus*	
	700 ppm	5 min	Virucidal	*Adenovirus Type 5*	Kvantitativ virucid suspensjonstest, 20 °C og dirty (3 g/L BSA + 3 g/L erythrocytes). Krav til log reduksjon: ≥ 4 log
	1000 ppm	5 min	Virucidal	*Poliovirus Type 1*	
	700 ppm	5 min	Virucidal	*Murine norovirus*	
	350 ppm	5 min	Virucidal	*Adenovirus Type 5*	Kvantitativ virucid suspensjonstest, 20 °C og dirty (3,0 g/L bovine albumin). Krav til log reduksjon: ≥ 4 log
	1000 ppm	5 min	Virucidal	*Poliovirus Type 1*	
	350 ppm	5 min	Virucidal	*Murine norovirus*	
	700 ppm	5 min	Virucidal	*Adenovirus Type 5*	Kvantitativ virucid suspensjonstest, 20 °C og dirty (10 g/L skimmed milk). Krav til log reduksjon: ≥ 4 log
	1000 ppm	5 min	Virucidal	*Poliovirus Type 1*	
	1000 ppm	5 min	Virucidal	*Murine norovirus*	
	350 ppm	30 min	Virucidal	*Murine norovirus*	
	5000 ppm	5 min	Virucidal	*Adenovirus Type 5*	Kvantitativ virucid suspensjonstest, 20 °C og dirty (10 g/L BSA + 10 g/L yeast extract). Krav til log reduksjon: ≥ 4 log
	10000 ppm	5 min	Virucidal	*Poliovirus Type 1*	
	5000 ppm	5 min	Virucidal	*Murine norovirus*	

Oversikt over EN-tester og organismer for Titan Hypo, samt konsentrasjoner og virketider for beståtte tester

EN 13623	150 ppm	5 min	Bactericidal	*Legionella pneumophila*	Kvantitativ baktericid suspensjonstest, 20 °C og clean. Krav til log reduksjon: ≥ 5 log
EN 14348	1500 ppm	5 min	Myco-bactericidal	*Mycobacterium terrae*	Kvantitativ mycobactericid suspensjonstest, 20 °C og clean. Krav til log reduksjon: ≥ 4 log
	600 ppm	30 min	Myco-bactericidal	*Mycobacterium terrae*	
	1500 ppm	5 min	Myco-bactericidal	*Mycobacterium avium*	
	600 ppm	30 min	Myco-bactericidal	*Mycobacteriem avium*	
EN 13704	900 ppm	30 min	Sporicidal	*Bacillus subtilis (spores)*	Kvantitativ sporicidal suspensjonstest, 20 °C og clean. Krav til log reduksjon: ≥ 3 log
	900 ppm	30 min	Sporicidal	*Bacillus cereus (spores)*	
	900 ppm	30 min	Sporicidal	*Claustridium difficile*	
	600 ppm	30 min	Sporicidal	*Bacillus subtilis (spores)*	Kvantitativ sporicidal suspensjonstest, 20 °C og dirty (10 g/L skimmed milk). Krav til log reduksjon: ≥ 3 log
	600 ppm	30 min	Sporicidal	*Bacillus cereus (spores)*	
	600 ppm	30 min	Sporicidal	*Claustridium difficile*	
	14400 ppm	5 min	Sporicidal	*Bacillus subtilis (spores)*	Kvantitativ sporicidal suspensjonstest, 20 °C og dirty (3,0 bovine albumin). Krav til log reduksjon: ≥ 3 log
	6000 ppm	30 min	Sporicidal	*Bacillus subtilis (spores)*	
	14400 ppm	5 min	Sporicidal	*Bacillus cereus (spores)*	
	6000 ppm	30 min	Sporicidal	*Bacillus cereus (spores)*	
	14400 ppm	5 min	Sporicidal	*Claustridium difficile*	
	6000 ppm	30 min	Sporicidal	*Claustridium difficile*	
	14400 ppm	5 min	Sporicidal	*Bacillus subtilis (spores)*	Kvantitativ sporicidal suspensjonstest, 20 °C og dirty (3,0 g/L bovine albumin + 3,0 ml/L sheep erythrocytes). Krav til log reduksjon: ≥ 3 log
	6000 ppm	30 min	Sporicidal	*Bacillus subtilis (spores)*	
	14400 ppm	5 min	Sporicidal	*Bacillus cereus (spores)*	
	6000 ppm	30 min	Sporicidal	*Bacillus cereus (spores)*	
	14400 ppm	5 min	Sporicidal	*Claustridium difficile*	
	6000 ppm	30 min	Sporicidal	*Claustridium difficile*	