



Solutions are our passion

New Norwegian guidelines on pool water treatment

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There are no new guidelines on pool water treatment in Norway

Forskrift for badeanlegg, bassengbad og badstu m.v.

| | |
|----------------|--|
| Dato | FOR-1996-06-13-592 |
| Departement | Helse- og omsorgsdepartementet |
| Publisert | Avd I 1996 767 |
| Ikrafttredelse | 01.08.1996 |
| Sist endret | FOR-2015-12-18-1740 fra 01.01.2016 |
| Endrer | FOR-1967-01-13-17 |
| Gjelder for | Norge |
| Hjemmel | LOV-2011-06-24-29-§8 , LOV-2011-06-24-29-§10 |
| Rettet | 04.10.2021 (tabell) |
| Korttittel | Forskrift for badeanlegg, bassengbad og badstu |

What's in it?

§ 15. Desinfeksjon

| Vanntemperatur | Vannets laveste innhold av fritt klor [*] | Sum av fritt og bundet klor, maksimalverdi ^{**} |
|----------------|---|---|
| ≤27°C | 0,4 mg/l | 3 mg/l |
| 27-29°C | 0,5 mg/l | 3 mg/l |
| 29-33°C | 0,7 mg/l | 4 mg/l |
| 33-37°C | 0,9 mg/l | 4 mg/l |
| >37°C | 1,0 mg/l | 4 mg/l |

§ 16. Vannkvalitet

| <i>Parameter</i> | | <i>Laveste tillatte verdi</i> | <i>Høyeste tillatte verdi</i> |
|--------------------------------|------------|-------------------------------|-------------------------------|
| 1. Fargetall | mg/l Pt | | 5 |
| 2. Turbiditet | FTU | | 0,5 |
| 3. Surhetsgrad | pH-verdi | 7,2 | 7,6 |
| 4. Kimtallsbakterier ved 37 °C | pr. ml | | 10 |
| 5. Pseudomonas aeruginosa | pr. 100 ml | | 0 |
| 6. KOF _{Mn} | mg/l O | | 4 |

There is a suggestion for a new regulation

| Vanntemperatur °C | Current Fritt klor mg/L | Future (?) Fritt klor mg/L | Current Total klor mg/L | Future (?) Total klor mg/L |
|----------------------|----------------------------|----------------------------------|-------------------------------|----------------------------------|
| =< 27 | > 0,4 | > 0,4 | < 3 | < 2 |
| 27-29 | > 0,5 | > 0,5 | < 3 | < 2 |
| 29-33 | > 0,7 | > 0,7 | < 4 | < 2 |
| 33-37 | > 0,9 | > 0,9 | < 4 | < 2 |
| >37 | > 1,0 | > 1,0 | < 4 | < 2 |

Gjelder for
Hjemmel
Kunngjort
Korttittel

Norge
[LOV-2011-06-24-29-80](#)

Forskrift for bade- og svømmeanlegg

| <i>Fysisk-kjemiske parametere</i> | <i>Enhet</i> | <i>current</i> | <i>Future (?)</i> |
|-----------------------------------|--------------|----------------|-------------------|
| Color | mg/l Pt | < 5 | < 5 |
| Turbidity | FTU | < 0,5 | < 0,5 |
| pH | - | 7,2 – 7,6 | 7,0 -7,6 |
| COD _{Mn} | mg/l O | < 4 | < 3 |
| THM | µg/l | ./. | < 50 |
| Chlorate & chlorite | mg/l | ./. | < 30 |
| Bromate | mg/l | ./. | < 2 |
| Redox-potential | mV | ./. | > 720 |

Comparison of (draft) Norwegian with other regulations

| | Norway | | | Denmark | | | Sweden | | | Social- styrelsen SOS FS2004:7 | Germany DIN 19643 | | |
|--|--------------|---------------|------------------|--------------|---------------|------------------|--------------|---------------|------------------|---|----------------------|------------------|-----|
| chlorine disinfection at water temperature | free mg/L | total mg/L | combined mg/L | free mg/L | total mg/L | combined mg/L | free mg/L | total mg/L | combined mg/L | free mg/L | total mg/L | combined mg/L | |
| <27 | > 0,4 | < 2 | < 1,6 | 0,4 - 1,5 | | 0,5 | 0,3 - 0,6 | | | > 0,4 | 0,3 - 0,6 | 0,5 - 0,7 | 0,2 |
| | | | | | | | 0,6 | | | > 0,6 | | | |
| 27-29 | > 0,5 | < 1,5 | | | | | | > 0,4 | | | | | |
| 29-33 | > 0,7 | < 1,3 | | | | | > 0,6 | | | | | | |
| 34 | | | | | 0,4 | | | | | | | | |
| 33-37 | > 0,9 | < 1,1 | > 0,4 | | | | > 0,8 | | | | | | |
| >37 | > 1 | < 1,0 | 1,0 - 2,0 | | | | 0,7 - 1,0 | 0,7 - 1,0 | 0,9 - 1,2 | | | | |
| | | | | | | 1,0 | | | > 1 | 0,7 - 1,0 | | | |

Data collected and compiled by Bjørn Aas

Comparison of (draft) Norwegian with other regulations

| | | Norway | | Denmark | | Sweden | | | Germany | |
|---------------------|---------|-----------|------|-----------|------|-----------|------|-----------|-----------------|------|
| | | low | high | low | high | low | high | SOS | low | high |
| Color | mg/l Pt | < 5 | | | | | | < 0,2 | 0,5/m at 436 nm | |
| turbidity | FTU | < 0,5 | | | | | | | 0,5 | |
| pH | | 7,2 - 7,6 | | 6.8 - 7.0 | 7,6 | 7,2 - 7,6 | | 7,2 - 7,6 | 6,5 - 7,2 | |
| colony counts | n/ml | < 10 | | < 5 | | < 1 | | | < 100 | |
| P. aeruginosa | n/100ml | 0 | | | | | | < 1 | 0 | |
| E. coli | n/100ml | | | | | | | | 0 | |
| COD (Mn) | mg/l | < 3 | | | | | | < 0,1 | 3 | |
| THM | mg/l | < 0,05 | | 0,025 | 0,05 | | | | < 0,02 | |
| Redox | mV | > 720 | | | | | | | > 750-770 | |
| chlorate & chlorite | mg/l | < 30 | | | | 0 | 30 | | < 30 | |
| bromate | mg/l | < 2 | | | | 0 | 2 | | < 2 | |

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