

# PROFESSIONAL SEA SALT QUALITY CHECK



**Produkt / product:** Professional Sea Salt

**Charge / Batch:** 25794

**Konzentration / concentration:**

Lösung aus 39 g/l in qualitätsgeprüftem Osmosewasser / solution of 39 g/l in quality checked osmosis water.

**Methodik / method:**

ICP-OES, photometrische und elektrochemische Verfahren spezifisch für Meerwasser / ICP-OES, photometric and electrochemical methods specific to seawater.

## PHYSIKALISCH-CHEMISCHE GRUNDWERTE / BASIC PHYSICAL-CHEMICAL VALUES

|                          |      | Gemessen / measured | Toleranzbereich / tolerance range |
|--------------------------|------|---------------------|-----------------------------------|
| Alkalinität / alkalinity | °dKH | 7,9                 | 7,8 - 8,2                         |
| pH-Wert / pH value       | -    | 8,1                 | 8,1 - 8,4                         |

## MAKROELEMENTE UND HALOGENE / MAJOR ELEMENTS AND HALOGENS in mg/l

|                             |                               | Gemessen / measured | Toleranzbereich / tolerance range |
|-----------------------------|-------------------------------|---------------------|-----------------------------------|
| Natrium / sodium            | Na                            | 10386               | 10300 - 10700                     |
| Schwefel / sulphur          | S                             | 897                 | 880 - 920                         |
| Sulfat / sulphate           | SO <sub>4</sub> <sup>2-</sup> | 2700                | 2650 - 2750                       |
| Kalium / potassium          | K                             | 400                 | 380 - 400                         |
| Bor / boron                 | B                             | 6,1                 | 5,6 - 6,2                         |
| Magnesium / magnesium       | Mg                            | 1300                | 1250 - 1300                       |
| Calcium / calcium           | Ca                            | 429                 | 410 - 430                         |
| Strontium / strontium       | Sr                            | 8,4                 | 7,5 - 9,0                         |
| Brom / bromine <sup>1</sup> | Br                            | 73                  | 66 - 74                           |
| Fluorid / fluoride          | F <sup>-</sup>                | 1,32                | 1,2 - 1,5                         |
| Iod / iodine <sup>2</sup>   | I                             | 0,070               | 0,065 - 0,080                     |

## MAKRONÄHRSTOFFE / MACRONUTRIENTS in mg/l

|                                    |                                               | Gemessen / measured | Toleranzbereich / tolerance range |
|------------------------------------|-----------------------------------------------|---------------------|-----------------------------------|
| Nitrat / nitrate                   | NO <sub>3</sub> <sup>-</sup>                  | 0,02                | n.n. - 0,3                        |
| Nitrit / nitrite                   | NO <sub>2</sub> <sup>-</sup>                  | 0,01                | n.n. - 0,01                       |
| Phosphor / phosphorus <sup>3</sup> | P                                             | 0,003               | n.n. - 0,008                      |
| Gesamtposphat / total phosphate    | PO <sub>4</sub> <sup>3-</sup> <sub>tot.</sub> | 0,009               | n.n. - 0,025                      |
| Silizium / silicon                 | Si                                            | 0,14                | 0,10 - 0,20                       |

## RELEVANTE SPURENELEMENTE / RELEVANT TRACE ELEMENTS in µg/l

|                       |    | Gemessen / measured | Toleranzbereich / tolerance range                  |
|-----------------------|----|---------------------|----------------------------------------------------|
| Zink / zinc           | Zn | 4,2                 | 3 - 5                                              |
| Vanadium / vanadium   | V  | 3,9                 | 2 - 5                                              |
| Kupfer / copper       | Cu | 4,1                 | 2 - 5                                              |
| Nickel / nickel       | Ni | 3,0                 | 2 - 4                                              |
| Molybdän / molybdenum | Mo | 12,0                | 10 - 16                                            |
| Barium / barium       | Ba | 18,5                | 10 - 20                                            |
| Cobalt / cobalt       | Co | 0,39                | n.n. - 2                                           |
| Chrom / chromium      | Cr | 0,70                | n.n. - 2                                           |
| Eisen / iron          | Fe | > 20                | Rieselhilfsmittel / anti-caking agent <sup>4</sup> |
| Lithium / lithium     | Li | 190                 | 180 - 210                                          |
| Mangan / manganese    | Mn | > 50                | Rieselhilfsmittel / anti-caking agent <sup>4</sup> |
| Selen / selenium      | Se | n.n.                | n.n. - 2                                           |

## SONSTIGE SPURENELEMENTE / OTHER TRACE ELEMENTS in µg/l

|                       |    | Gemessen / measured | Toleranzbereich / tolerance range |
|-----------------------|----|---------------------|-----------------------------------|
| Aluminium / aluminium | Al | n.n.                | n.n. - 2                          |
| Antimon / antimony    | Sb | n.n.                | n.n.                              |
| Arsen / arsenic       | As | n.n.                | n.n.                              |
| Beryllium / beryllium | Be | n.n.                | n.n.                              |
| Blei / lead           | Pb | n.n.                | n.n.                              |
| Cadmium / cadmium     | Cd | n.n.                | n.n.                              |
| Lanthan / lanthanum   | La | 5,0                 | 2 - 5                             |
| Quecksilber / mercury | Hg | n.n.                | n.n.                              |
| Silber / silver       | Ag | n.n.                | n.n.                              |
| Titan / titanium      | Ti | n.n.                | n.n.                              |
| Wolfram / tungsten    | W  | n.n.                | n.n.                              |
| Zinn / tin            | Sn | n.n.                | n.n.                              |
| Zirkonium / zirconium | Zr | n.n.                | n.n.                              |

### Bemerkungen / notes

1 Gesamtbrom, bestimmt mittels ICP-OES / total bromine, measured using ICP-OES

2 Gesamtiod, bestimmt mittels ICP-OES / total iodine, measured using ICP-OES

3 Gesamtphosphor, bestimmt mittels ICP-OES / total phosphorus, measured using ICP-OES

4 Rieselhilfsmittel haben keine bioaktive Wirkung und werden durch Abschäumer entfernt / anti-caking agents have no bioactive effect and are removed by skimmers.

### Abkürzungen / Abbreviations:

n.n. (nicht nachweisbar) / n.n. (not detectable)

ICP-OES (induktiv gekoppeltes Plasma mit optischer Emissionsspektrometrie) / ICP-OES (inductively coupled plasma optical emission spectrometry).