



## WATER QUALITY GUIDELINES & TESTING STANDARDS

Parameter	Value	US Standard	ISO	European and National Standards	WHO Water Quality Assessment 1992
<b>Sampling</b>			ISO 5667-1 ff	DIN 38402-A 11 ff	Yes
<b>Temperature</b>	≤ 37°C	USEPA 170.1 or SM 2550		DIN 38404-C 4	Yes
				DIN 38404-C 5	
<b>pH, Standard Units</b>	6.0-9.0	USEPA 150.1 or SM 4500H	ISO 10523		Yes
<b>Traditional Parameters:</b>					
Total Suspended Solids	≤ 30.0mg/l	USEPA 160.2 or SM 2540D	ISO 11923	DIN EN 872	Yes
Biochemical Oxygen Demand	≤ 30.0mg/l	USEPA 405.1 or SM 5210	ISO 5815-1, -2	DIN EN 1899-1	Yes
Chemical Oxygen Demand	≤ 200.0mg/l	USEPA 410.4 or SM 5220B or HACH Method	ISO 6060:1989	DIN 38409-H 41	Yes
<b>Chemical Constituents:</b>					
Antimony	≤ 0.01mg/l	USEPA 204.2 or SM 3500			
Arsenic	≤ 0.01mg/l	USEPA 206.2 or SM 3500	ISO 11885*	DIN EN ISO 11885*	Yes, AAS
Cadmium	≤ 0.01mg/l	USEPA 213.2 or SM 3500	ISO 5961**, ISO 11885*	DIN EN ISO 11885*	Yes, AAS
Chromium	≤ 0.10mg/l	USEPA 218.2 or SM 3500	ISO 9174**, ISO 11885*	DIN EN 1233**, DIN EN ISO 11885*	Yes, AAS
Cobalt	≤ 0.02mg/l	USEPA 219.2 or SM 3500	ISO 8288**, ISO 11885*	DIN EN ISO 11885*	Yes, AAS
Copper	≤ 0.25mg/l	USEPA 220.1 or SM 3500	ISO 8288**, ISO 11885*	DIN 38406**, DIN EN ISO 11885*	Yes, AAS

Cyanide	≤ 0.20mg/l	USEPA 335.2 or SM 4500CNE	ISO 6703-1, -2, -3	DIN 38405-D 13-1	Yes
Lead	≤ 0.10mg/l	USEPA 239.2 or SM 3500	ISO 8288**, ISO 11885*	DIN 38406**, DIN EN ISO 11885*	Yes, AAS
Mercury	≤ 0.01mg/l	USEPA 245.1 or SM 3112	ISO 5666	DIN EN 1483	Yes, AAS
Nickel	≤ 0.20mg/l	USEPA 249.1 or SM 3500	ISO 8288**, ISO 11885*	DIN 38406**, DIN EN ISO 11885*	Yes, AAS
Zinc	≤ 1.00mg/l	USEPA 289.1 or SM 3500	ISO 8288**, ISO 11885*	DIN EN ISO 11885*	Yes, AAS
<b>Color</b>	≤ 150 ADMI units or 150 Co-Pt units	USEPA 110.1 or SM 2120E	ISO 7887	DIN EN ISO 7887	Yes
<b>Foam:</b> No visible discharge of floating solids or persistent foam.					
<b>Domestic Sewage:</b> Sewage must not be discharged directly into open bodies of water. If there is no public treatment facility available, a septic tank system should be installed.					

**Key:**

\*: Inductively coupled plasma atomic emission spectroscopy (ICP-OES)

\*\* : Atomic adsorption spectrometry (AAS)

ADMI: American Dye Manufacturers Institute

DIN: Deutsches Institute für Normung (German Institute of Standards)

EN: European Norm

ISO: International Standard Organization, complete list of water test methods, technical committee TC147:

<http://www.iso.org/iso/en/stdsdevelopment/tc/tclist/TechnicalCommitteeStandardsListPage.TechnicalCommitteeStandardsList?COMMID=3666&INCLUDESC=YES>

TC: Technical Committee

USEPA: United States Environmental Protection Agency