



## CONTENTO TRADE SRL

Technological innovation for the environment

Highly qualified research and experimentation private laboratory  
L-R. 11/2003 art. 5  
D.D. 483 del 27/09/1999

## Chemical analysis

---

### WATERS

tap water and mineral water:

anions,  
cyanides,  
heavy metals determination: Atomic Absorption,  
flame atomizer,  
heavy metals determination: Graphite Furnace  
Atomic Absorption Spectrometry (GFAAS),  
heavy metals determination: Hydride generation  
atomic absorption spectroscopy (HGAAS),  
fixed residue at 180°C,  
physical aspects determination (look, color, smell,  
taste, temperature).

Sea water, lacustrine, river, sewage, liquid  
drainage mud, hydric pollution, eluates:

anions,  
ammonia nitrogen,  
cyanides,  
Chemical Oxygen Demand,  
hydrocarbons,  
coarse solids,  
heavy metals determination: Atomic Absorption,  
flame atomizer,  
heavy metals determination: Graphite Furnace  
Atomic Absorption Spectrometry (GFAAS),  
heavy metals determination: Hydride generation  
atomic absorption spectroscopy (HGAAS),  
pH,  
physical aspects determination (look, color, smell,  
taste, temperature),  
total suspended solids,  
oily substances (fats, animal and vegetable oils  
and mineral oils).

### WASTES

anions,  
cyanides,  
Chemical Oxygen Demand,  
heavy metals determination: Atomic Absorption,  
flame atomizer,

heavy metals determination: Graphite Furnace  
Atomic Absorption Spectrometry (GFAAS),  
heavy metals determination: Hydride generation  
atomic absorption spectroscopy (HGAAS),  
pH,  
humidity at 105°C.

### SOILS

hydrocarbons C10 – C40,  
polycyclic aromatic hydrocarbons (PAH),  
polychlorinated biphenyls (PCB),  
anions,  
cyanides,  
phenol index,  
heavy metals determination: Atomic Absorption,  
flame atomizer,  
heavy metals determination: Graphite Furnace  
Atomic Absorption Spectrometry (GFAAS),  
heavy metals determination: Hydride generation  
atomic absorption spectroscopy (HGAAS).

### AGGREGATES

anions,  
heavy metals determination: Graphite Furnace  
Atomic Absorption Spectrometry (GFAAS),  
setting, hardening,  
acid- soluble sulphates,  
total sulphur,  
chloride,  
humic substances,  
fulvic acids,  
carbon dioxide,  
reactive iron sulphide.

## Physical & mechanical tests

---

### AGGREGATES

affinity between the aggregate and bitumen,  
laser granulometry analysis,  
oil absorption in 24 hours,  
density,  
free lime in steel mills slags,  
gains flattening coefficient,  
light contaminants,  
water content,  
granulometric distribution,  
iron disintegration,  
simplified petrography description,  
dicalcium silicate disintegration,  
steel mills slags expansion,  
solubility in water,  
grains form index,  
mass density in a stack, emptiness between the grains,  
grains mass density and water absorption,  
fractured surfaces percentage,  
mass losses after freezing and thaw in water cycles,  
mass losses after cycles of magnesium sulfate absorption and desiccation,  
weight loss for calcinations,  
reactivity in a presence of alkali,  
resistance to use (Micro Deval Umida),  
resistance to fragmentation Los Angeles,  
resistance to break,  
resistance to disintegration,  
shrinkage due to desiccation,  
running of the fine aggregates,  
Sonnenbrand visual examination, mass loss, fragmentation,  
levigability value VL,  
abrasion value AAV,  
sand equivalent,  
methylene blue,  
variation of the setting time and resistance due to organic pollutants.

### CONCRETE AND MALTS

compression resistance,  
time of the setting start and finish for the malts samples,  
resistance to indirect traction,  
water absorption,  
complete study of the concrete recipe.

### PRECAST CONCRETE AND PLAQUES

natural stones classification,  
petrography exam,  
water absorption,  
real and apparent mass density, porosity,  
permeability,  
resistance to bending,  
resistance to compression,  
resistance to slip,  
resistance to abrasion,  
superficial ruggedness,  
resistance to ageing,  
visual inspection and determination of the resistance to bending variation under concentrated load after 12/48 freezing and thaw cycles.

#### concrete cylinders:

geometric characteristics,  
compression resistance,  
water absorption for capillarity.

#### concrete blocks, sheets and curbs:

form and dimensions,  
water absorption,  
resistance to freeze in the presence of salts,  
resistance to abrasion,  
resistance to break (traction, bending).

#### stonework blocks:

form and dimensions,  
dry mass density,  
water absorption,  
resistance to break.

### VARIOUS BUILDING MATERIALS

chemical, physical and mechanical tests for various building materials and products.

Accredited research laboratory:



REGIONE AUTONOMA  
FRIULI VENEZIA GIULIA



Ministero dell'Istruzione, dell'Università e della Ricerca



---

To receive free quote, please contact us via e-mail:  
[contento@contentotrade.com](mailto:contento@contentotrade.com)