

## Boron - Why do we care?

Lab prepares samples for atom counting, one by one.

Boron gets in the way.



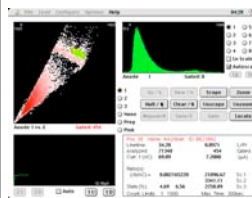
The lab is used for ultra-sensitive analyses:

*ppq = one human hair out of all the hair on all the heads of all the people in the world*

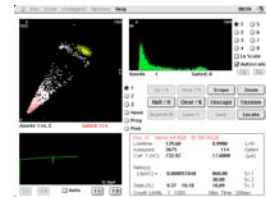
*ppt = one square foot of floor tile on a kitchen floor the size of Indiana*

## Boron- Causing Trouble

**Boron-Contaminated**  
post fire from sheetrock and fiberglass?



**Normal Sample**  
from uncontaminated lab



## Boron - What is it?

- A light element
- Commonly used for
  - Fireproofing
  - Glass making
  - insecticide
- Non toxic
- Natural sources



## Boron - Where does it come from?

US and Turkey are the world's largest producers of boron.

Boron is a natural element that occurs in rock formations.



## Boron - Where can you find it?

Chemical Characterized	Quantity (%)	Chemical Characterized	Quantity (ppm)
Dry Matter	90.23	Sodium	151.2
Ash	87.89	Magnesium	114.4
Nitrogen	0.15	Phosphorus	83.5
Sulfur	17.6	Boron	48.1
Calcium	28	Zinc	40.2
Magnesium	7.4	Chromium	21.7
Potassium	41.1	Copper	10.3
		Lead	9.8
		Manganese	1.2

Boron is a natural element that is added to drywall as a fire retardant.



## Boron - Where can you find it?



As a fire-retardant in blown in cellulose insulation, usually boric acid.



## Boron - Where can you find it?



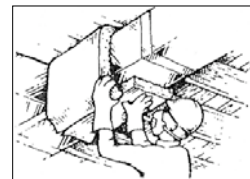
As a part (about 5%) of fiberglass insulation, usually as borosilicate glass.



## Boron - Where can you find it?



Boron is present in and on most HVAC systems as a fire-retardant in filters and as as borosilicate fiberglass insulation .



## Boron - Where can you find it?

Dead Sea Seaweed Soap



As Borax, boron is a common additive to soaps and laundry detergents.



## Boron - Where can you find it?

Eye shadow applicator



Boron is found as various compounds in cosmetics and other health products.

Ingredients: Zinc, Iron Oxides, Titanium Dioxide - May contain: Ultramarine, Kaolin, Magnesium Stearate, Rice Powder, Borax, Nylon-6, Magnesium Myristate



Bodybuilding [special report]  
Product ID: Boron, BODY BUILDING  
A SPECIAL REPORT WRITTEN BY ALEX DUARTE, O.D., Ph.D.  
[more info >>](#)

\$7.00

[add](#)



Boron, Super  
Product ID: Boron, BODY BUILDING  
2.6 oz. Improves strength and endurance and helps elevate testosterone levels. [Pkg. 29.95](#)  
[more info >>](#)

Internet Special:

\$22.00

[add](#)

## Boron - Where can you find it?



Boron is found as boric acid in insecticides, specifically roach killers.



## Boron - Where can you find it?

Boron is used as a fungicide applied to wood, concrete, and other masonry.

### Borons Kill and Prevent Dry Rot Self and Speed Treatment

We are a National Service - with local Specialist Suppliers

How to treat Dry Rot - Free Technical Help - 01628 331351 - Kathy, David or Angela answers your call - discuss your problem with a Qualified Timber Expert (C.T.S.B.)

How to kill Dry Rot - (Don't forget to eliminate the moisture source)

**Boron Ultra 12** - the best surface spray fungicide for killing Dry Rot. A white powder that dissolves in water, odourless, non-staining and pleasant to use. Use one 2.5kg bag for every 25 litres of water, applied at a rate of 2.5 square metres per litre. Apply to timber, masonry and sub-slab soil. HSE Approved for a 1 hour re-entry time, after treatment.

Option - Ready to Use - Boron Ultra 10%

Dry rot can be nasty (someone's office wall)

[How much do I need? Click here](#)

[Go Directly to the Order Page](#)



# Boron- What to do about it?

1. Keep fiberglass out of the lab and air system.
2. Keep insecticides and fire retardants away.
3. Do not use soaps and detergents in the lab.
4. Keep sheetrock out of the lab.
5. Don't wear sheetrock/fiberglass- contaminated clothing and boots in the lab.
6. Don't bring tools grossly contaminated with sheetrock dust or fiberglass into the lab.
7. Be wary of substitutions.
8. Check labels.
9. Get cleaner as completion approaches.
10. Ask if you have questions.