

## What is 4SIGHT Server?

It is a ceramic lab and library database system that runs as a web server on a computer in your office, lab or on the internet. You interact with it using only your web browser.

## Technically, what is it?

It is a computer with the Apache web server, MySQL database and the PHP language installed (4SIGHT is written in PHP). You use it by pointing your browser at it and clicking to find and enter information. When you save or retrieve information the 4SIGHT program code asks the SQL server to perform the desired task and redisplay the page.

## Features

- A stable foundation for your lab record keeping, always there despite changes in personnel.
- Easy-to-use web interface.
- Product of 25 years of Digitalfire experience.
- Rock-solid SQL database foundation for unlimited storage and high speed operation.
- Runs on Linux, OSX or Windows.
- Flexible permissions to control access.
- Storage of recipe, materials, oxide, property, article, mineral, hazard, test procedure, test result, company, picture data in an inter-related manner that reflects real-world hierarchies.
- Starter data from Digitalfire for materials, oxides, hazards, recipes, etc..
- Can connect to a web site to generate dynamic content (e.g. data sheets).
- Proven test procedures included for many types of tests on bodies, glazes and raw materials.
- Flexible report generation system that can handle almost any graphical reporting task.
- This is the kind of server Amazon or Ebay uses, it can also act as your E-mail system; a firewall, gateway and VPN; it can host web sites, act as an FTP or SSH server.
- Palm Pilot, Pocket PC, iPhone wireless access coming (start setting up your system now).

## How much expertise do we need?

You need to know how to use a web browser and keep a network or internet connection working so your computer can see the server.

## Installation

It is our intention to make this product available at a reasonable price to INSIGHT users, we are still working out the details.

We can install it remotely onto your Apache, PHP, MySQL equipped server or at your internet service provider. In future you will be able to install it yourself onto your own workstation (the server software will be included). Please email for more info.

## Services Digitalfire Provides

- We can assist you long term to train your staff and set up a comprehensive testing and quality control program.
- We can provide active ongoing roles in lab management
- Data backup services
- Conversion services for historical data
- Problem trouble-shooting
- Custom features development (e.g. reports)

## Upgrading

We will notify you of new versions and install according to the original level. Major upgrades (e.g. 1.0 to 2.0) are one third the cost of new installs, minor ones are free.

## More Information

You can download the 4Sight manual from our website. It not only has information about the mechanics of using 4Sight but has lots of background information on how 4Sight is designed and the open technologies it is built on as well as information on how to run a testing program.



## 4Sight Server creates your-ceramic-lab.com

- It runs as a web application on a server in your office or across the internet. It works on Windows, Mac or Linux.
- It provides a place to maintain and interrelate ceramic lab testing, material, property, supplier, hazard, chemistry, recipe, and other information.
- The data for your lifetime can go here, 4Sight is from Digitalfire, the company with 25 years of experience in this field.

# 4SIGHT Server administers your private or public web site of ceramic testing information

In each area access privileges of users determine whether they are presented with editing controls (shown here) or the information is just displayed.

The history list shows links to recently visited records. Some areas employ this list for special functions.

These are the main areas, click any one to switch there. Each remembers what record it is at and they often have on-page links to go to other areas.

Every page in 4SIGHT has a title bar that enables you to switch areas, search, view a report, select actions in a drop-down menu.

This menu has area-specific items (e.g. adding, deleting, duplicating, finding records). The confirm check box is required by some choices.

**M340 PRODUCTION RUN**  
Code: P2000

Member of Groups: M340 Report As: Medium Temperature Clay Body Date: 2004-02-29

Description: descrip ID# 26

See Also:  Del A3 Test Related  Del BMix Cone 10 Laguna Clay Master

Cache

Recipe Add 0

| Del                      | Stat | Material | Amount | Tol | Units | Ord |
|--------------------------|------|----------|--------|-----|-------|-----|
| <input type="checkbox"/> |      | A3       | 50.00  | .5  | kg    | 0   |
| <input type="checkbox"/> | c    | B        | 50.00  | .6  | kg    | 0   |

Total 100.00 kg

Testdata Shrinkage/Absorption (SHAB)

| Test | DLEN  | FLEN  | FVMT  | EMVT  | CONE | TEMP  |
|------|-------|-------|-------|-------|------|-------|
| 0    | 93.85 | 89.92 | 39.25 | 41.10 | 4.0  | TEST1 |
| 1    | 93.73 | 89.50 | 40.88 | 42.55 | 4    |       |
| 2    | 93.64 | 88.76 | 42.29 | 43.23 | 5.2  |       |
| 3    | 93.53 | 88.17 | 41.60 | 42.06 | 6.8  |       |
| 4    | 93.56 | 87.80 | 42.21 | 42.46 | 7.2  |       |
| 5    | 93.54 | 87.88 | 42.31 | 42.63 | 7.8  |       |
| 6    | 93.61 | 89.58 | 41.98 | 44.54 | 9.2  |       |

Drying Factor (DFAC)  
DFAC SOLD SOLW  
C120

LOI/Density/Water Content (LDW)  
H2O LOI DENS VWGT DWGT FWGT QWGT MWGT  
47.64 38.09 35.61 38.25 19.36

Soluble Salts (SOLU)  
DRY FIRE GLAZ

**M340 PRODUCTION RUN**  
Code Number: P2000

Date: 2004-02-29  
Drying Factor: C120  
Solubles on Fired: nil  
Sieve Analysis:  
35M 48M 65M 100M 150M 200M 325M  
0.25% 1.10% 1.98% 4.84% 6.46%

Drying Shrinkage: 6.36% (7)

Shrinkage/Absorption Graph:  
Y-axis: 0 to 10  
X-axis: 6 to 11  
Series: Abs (blue line), Shr (red line)

Authors:  
• Tony Hansen (Owner)

These lines are stored in another linked table, add lines by specifying the number in the Add field (the next time the page is saved they are added).

All areas have links like these that go directly to a related record in another area. For example, these will go to an item in the material area.

All areas have notes fields (this page has to be scrolled down to see the notes).

Instead of launching a program on your computer you use 4SIGHT by visiting the web address where it is installed. If it is on a server in your office this address might look like this: <http://192.168.1.1>

**Oxides Page:** Materials are defined in terms of these oxides, change one of these and the chemistry of all materials referencing it are automatically updated.

Symbol: MgO  
Name: Magnesium Oxide, Magnesia  
Family: Oxide  
Expansion: 6025 Fusion: 2800 Melts: 2003-12-08  
Stability Group: F88 Order: 44 Show Order: 5 Common

Properties Add 0  
Section/Tite/Detail: Mate  
Surface Modifier: Mate  
Magnesia is well known for the pleasant velvety 'fairy' and 'hares' fur' tactile and visual effects that it produces around 1200C, especially in reduction firing (chromite mullite). However, it can produce matte effects.  
From The Oxide Handbook  
From The Oxide Handbook  
Articles:  Del [Browse Out the Big Guys in Green Control MgO \(201213\)](#) 2003-12-10  
Description:  
Authors: You own the record  Private

Use the Save button to save changes and act on check boxes.

**Materials Page:** Recipes are defined in terms of these materials, change one of these and all recipes referencing it are automatically updated.

(2287) Name: Alberta Slip II  
Alternate Names: Archite Bray Slip  
Description: Al2O3 substitute  
Family and Type:  Clay  Mineral  Ceramic  
Origin: North America (1) Move to:  
Chemistry:  Del  Stat  Oxide  Percent  Form  SI  
Add 0  
Date: 2003-09-07  
This is a new version of Alberta Slip with the following improvements:  
-It has a little more iron and fires closer to the original Albany Slip.  
-It is ball coated has been increased the exposure of size and thus its working properties are much more similar to Albany. Like Albany, it can be used as-is as a slip glaze that dries without cracking to fire to a glossy tenmoku at cone 10.  
-It melts a little better.  
You can order a sample of this material at <https://digitalfire.com/plans/main/stores/stock.php>

Volatiles:  Add 0  
Granular: 0.00  
Molecular Weight: 442.74

See Also:  Del [Albany Slip](#) Substitute  Unspecified  
 Del [Albany Slip](#) Substitute  
 Del [Albany Slip](#) Power

Records:  Del [Quartz, Crystalline Silica](#) 2003-11-10

Temperatures Add 0  
Supplies:  Del [Albany Slip](#) Viscosa CA

XML of this record  

```
<material name="Alberta Slip II" desc="Albany slip substitute" generic="Y" ravn="nerah" Q=" search="Archite Bray Slip"
  http://192.168.1.1
```