

## **FORTNA EQUIPMENT CO.**

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**SALES • SERVICE • PARTS • BEADS • MEDIA**

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## **Walnut Shell Information:**

**Black Walnut shell abrasive is used to blast clean and polish soft metals, fiberglass, wood, plastics and stone. It works as a deburring and deflashing product for moldings, castings, and electrical parts. It is an efficient soft abrasive when used to tumble and polish gun casings, jewelry, ink pens and metal parts-and can also be used to prepare surfaces and equipment for painting. In some applications, because of its resistance to breakdown, Black Walnut shell abrasive can be reused many times, reducing costs.**

## **Frequently Asked Questions**

**Q.** How is the finished shell packaged?

**A.** Most shell is bagged in 50 pound 3 ply paper bags. Forty bags are normally stacked on a 40" x 48" 4 way hardwood pallet. Other packaging options include 250-pound fiber drum, 1000-pound box, and 2000-pound mini-bulk bag.

**Q.** What are the differences between Black Walnut shell and English walnut shell?

**A.** Black Walnut shell is very thick and hard, whereas English walnut shell has a thinner, softer shell. The Black Walnut shell has little to no pith, while English walnut shell has considerably more lightweight soft pith or membrane.

**Q.** What size of shell should be used and works the best?

**A.** The most common sizes are 8/12, 12/20, and 20/30. However, there are many variables in blast cleaning and the exact size used depends upon the application. We recommend that you review a sample, plus test run if feasible, to get the best sizes as well as quantity needed.

**Q.** What air pressure should be used to blast clean?

**A.** Frequently 80 to 100 PSI is used. The exact pressure depends on the type of surface being cleaned (ex: metal, wood, stone), the material to be removed from the surface, and the type of finish needed.

**Q.** Is there any hazard concerns?

**A.** No, Black Walnut shell is an environmentally friendly product - totally natural, organic material.

**Q.** What equipment should be used in blast cleaning?

**A.** Regular blast cleaning equipment works very well with Black Walnut shell.

**Q.** What will be my cost per square foot?

**A.** This depends upon many variable, such as surface type, the material to be removed, whether you can reclaim and reuse, and final surface finish that is desired. We recommend that you sample and test run, if feasible, to get appropriate cost per square foot for your application.

## Physical and Chemical Composition

### Physical Characteristics

Color.....	Light Brown
Specific Gravity.....	1.2 - 1.4
Hardness.....	3 on MOHS scale
Moisture.....	NMT 11% by weight
pH.....	7.5
GSA Specification.....	AA-1722 Type 2
Military Specification.....	MIL-G-5634 Type 3

### Chemical Analysis

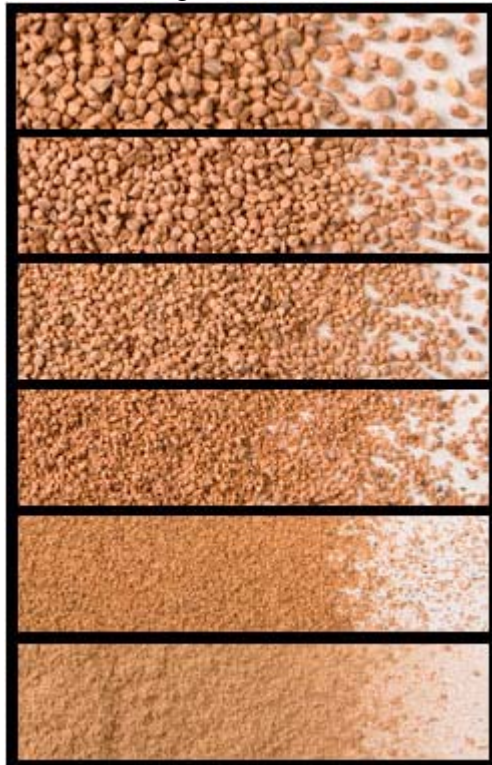
	% by weight
Nitrogen.....	0.10
Specific Gravity.....	40/60
Cellulose.....	20/30
Lignin.....	0.5/1.0
Toluene Solubility.....	6.5
Methoxyl.....	0.10
Chlorine.....	1.5
Ash.....	1.0
Cutin.....	

### Particle Size Sieve Information

SIEVE SIZE	OPENING
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U.S. Mesh	Inches	Microns	Millimeters
4	.187	4760	4.76
6	.132	3360	3.36
8	.0937	2380	2.38
10	.0787	2000	2.00
12	.0661	1680	1.68
14	.0555	1410	1.41
16	.0469	1190	1.19
18	.0394	1000	1.00
20	.0331	840	0.84
30	.232	590	0.59
40	.0165	420	0.42
60	.0098	250	0.250
80	.0070	177	0.177
100	.0059	149	0.149
200	.0029	74	0.074
325	.0017	44	0.044

Product listing



6/10

8/12

12/20

20/30

30/100

-100

