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1172 E. Cliff Road
Burnsville, MN 55337

THE WRAP-UP

We help you achieve the
greatest return for your
packaging investments.

PACKNET LTD.

Facts About Wood

BACKWORDS



- Wood products make up 47 percent of all industrial raw material manufactured in the United States, yet consume only 4 percent of the energy needed to manufacture these industrial materials.
- As an insulator, wood is 4 times more efficient than an equivalent thickness of cinder block, 6 times more efficient than brick, 15 times more efficient than concrete, 306 times more efficient than steel, and 1,770 times more efficient than aluminum.
- Wood fiber is used in the production of photographic film, rayon products, and even interior moldings of car doors. Wood by-products are often used in paints and adhesives.
- Each person in the U.S. "consumes" about 74 cubic feet of wood each year. That wood comes in many forms – from construction lumber to furniture to tissue paper to packaging and energy. If the 74 cubic feet were dry Douglas fir, it would weigh over 230 pounds! (USDA Forest Service Gen. Tech Report FPL-116)
- Pallets, containers and all other types of wood packaging utilize only 14% of all wood fiber harvested each year in the U.S. (Source: U.S Forest Service)
- Comparing the total energy costs to acquire the raw material, transport, process and the use of a product throughout its lifetime, wood far outshines its competitors.
- Today, the United States has far more trees than in the 1920's and grows over one-third more wood than is used and lost to natural causes each year.
- Global wood consumption has tripled during the last century, roughly paralleling population growth
- Only 1.4% of all municipal wood waste (by weight) consists of pallets.

PACKNET LTD.
PACKED WITH INTEGRITY

THE

WRAP-UP

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COSTCUTTERS

Don't Be Confused - Not All Heat-Treated Stamps Are Compliant!



1. If you are not familiar with the new rules requiring treatment of solid wood packaging materials (SWPM), it could lead to a major and costly

problem. The International Standard for Phytosanitary Measures #15 (ISPM 15) requires that coniferous (softwood) and non-coniferous (hardwood) packaging materials are either heat-treated or fumigated. Pallets and other SWPM meeting the requirements must have the certification logo stamp, which Packnet can provide.

Do not be confused about the heat-treated stamp. In order to be compliant, SWPM must be manufactured by a certified facility such as Packnet. There are basically two components to this process. First, the heat treatment of raw materials is normally done at the mills. The lumber is then marked with an HT stamp (see photos 2, 3 and 4 for examples). Secondly, lumber that is cut and used in the manufacturing of wooden pallets, boxes, crates, and bracing requires the IPPC approved stamp, indicating that the



2. packaging is compliant with ISPM 15 (see photo 1). Foreign inspectors will be looking for the IPPC stamp, not the mill stamp. If your packaging is not compliant, an importer's government can return the shipment to the exporter, quarantine and fumigate it at the receiving port, or strip the packaging, repackage the goods and burn the original package material. In Finland, an exporter was charged \$10,000 just to have his packaging burned.



4. Simply buying and using HT materials does NOT meet compliance with ISPM 15 requirements! To ensure that you use compliant wood packaging products call Packnet at 952-944-9124 or 507-333-2821.

Simply buying and using HT materials does NOT meet compliance with ISPM 15 requirements! To ensure that you use compliant wood packaging products call Packnet at 952-944-9124 or 507-333-2821.

Read the ISPM 15 regulatory update on page 3 of this issue for more information.

INTERNET CORNER

www.free-training.com/osha/forklift/forkmenu.htm – Forklift operation and safety course information.

www.palletenterprise.com/pests/ – Additional information on the IPPC standard.

www.packnetltd.com – Our site offers case studies, information on our products and services, and how to contact us.

POLLUTION SOLUTION

Protect Your Products and Equipment with Environmentally Friendly Corrosion Inhibitors

Cortec Corporation has provided packaging and materials protection technologies for over 25 years. Their newest product lines, EcoSpray®/EcoClean® and EcoLine™ are high-performance certified biodegradable packaging technologies. These products are based on a renewable resource soybean derivative, soybean methyl esters. Unlike products made from traditional mineral oils, these products are better for the environment while providing unparalleled performance.

EcoSpray®/EcoClean® products are a fast-acting, safe-to-handle, solution for the toughest maintenance duties. They incorporate non-toxic, biodegradable chemicals without aerosols, propellants, or ozone-depleting CFCs.

The product line includes:

Electronic Cleaner – Protects against and stops corrosion of electrical and electronic components.

Industrial Lubricant – Replaces oils with natural, biodegradable lubricants and corrosion inhibitors.

Rust Blocker – Water-based coating rust-proofs iron, steel and other ferrous metals.

EcoLine™ products provide excellent lubricity and biodegradability while leaving behind a high-performance Vapor phase Corrosion Inhibitors (VpCI™) corrosion-protecting layer.

A partial listing of the EcoLine includes:

Bearing, Chain & Roller Lube – Rust preventative lubricant for indoor and outdoor applications.

All Purpose Lubricant – Use on metals and most plastics for industrial, shop and institutional applications.

Long Term Rust Preventative – Provides outstanding multi-metal corrosion and oxidation protection.

Packnet is familiar with the entire line of Cortec products and can recommend the right product for your specific needs.



We help you achieve the greatest return for your packaging investments.

Wood Products

- Fully Enclosed Crates & Boxes
- Custom Skids & Pallets
- Reusable Crates
- Ramps
- Slat Crates
- Wood Cut Parts

Foam Conversion

- Foam-in-Place
- Sheet Foam Conversion

Corrugated Boxes

- Single, Double & Triple Wall
- High Volume & Short Runs

Crating and Packaging Services

- In-house Product Packaging
- On-site Product Packaging
- Ocean Containerization
- Product Unpackaging & Repackaging
- Skidding / Palletization
- Mil-Spec & Dangerous Goods

Corrugated Plastic

- Die Cut Pads, Dividers & Containers
- Screen Printing

Reusable Containers

- The Perma Pal Pallet Box
- Buckhorn Containers
- Orbis Totes
- Plastic Pallets
- Metal Reusables

Wholesale Lumber

Shock and Tilt Indicators

Warehousing and Logistics

Freight and Shipping

IPPC Heat Treat Certified

Design and Engineering

Cortec™ VpCI Corrosion Inhibitors

Package Refurbishing Programs

TRIVIA

Brain Exercise



- In which year did the era of couch potatoes begin, with the first wireless remote control device for televisions?
a. 1955 b. 1919 c. 1970 d. 1939
- In which year did the first Lincoln head penny appear in circulation, in honor of U.S. President Abraham Lincoln?
a. 1927 b. 1888 c. 1944 d. 1909
- Which of the following is a household device also named a rheostat?
a. An oral digital thermometer
b. A porcelain toothbrush holder
c. The border that holds carpeting in place
d. Light dimmer switch
- Most people take their refrigerator for granted. In which year was the first practical refrigerator invented?
a. 1746 b. 1897 c. 1834 d. 1925
- Millions of people everyday place a small dot over an "i" while writing, without any thought to this feat. What is this small dot placed over the letter called?
a. Tittle b. Monk c. Dwarf d. Realm marker
- When displaying a United States flag in a fixed position (not waving), in which direction must the union (blue background with stars) face?
a. Always to the left
b. Upside down
c. To the north or east
d. Always on the right
- If you have ever seen a pictus cat, you would have seen which of the following?
a. A leopard painting
b. A spotted catfish
c. Scaffolds used for building repairs
d. A Himalayan orange-bred kitten

- a. 1955 The Flash-matic, invented in 1955 was the first wireless remote created by Zenith Corporation.
- d. 1909 The first Lincoln penny was stamped in 1909. It had his face on the front and a Wheathead design on the back.
- d. Light dimmer switch - The common term for a rheostat is a dimmer switch.
- c. 1834 - Jacob Perkins used compressed ether to create the cold air. Freon was later introduced.
- a. Tittle - A tittle is defined as a small mark or dot in punctuation. Another letter that uses a tittle is the letter 'j'.
- c. To the north or east - The flag will always point to the right or left depending on which side of the flag that you are standing.
- b. A spotted catfish - A pictus cat is a tropical fish found in many home aquariums.

BY THE BOOK - SPECIAL UPDATE

ISPM 15 Regulatory Update As of February 28th 2005

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Countries with implementation changes since last update (January 12, 2005):

China: The General Administration of Quality Supervision, Inspection and Quarantine (AQSI) announced they will be implementing their new WPM regulation January 1, 2006. China will also start accepting the ISPM 15 mark in lieu of the HT certificate (APHIS PPQ 553) effective immediately.

Summary information for countries that have begun implementation or announced plans to implement ISPM-15:

New Zealand: April 16, 2003

Australia: September 1, 2004: Bark-free + packing declaration for ISPM-15 compliant WPM, 21-day rule does not apply.

Nigeria: September 30, 2004

India: November 1, 2004: Phytosanitary certificate required only for WPM not ISPM-15 compliant.

Costa Rica: January 1, 2005

South Africa: January 1, 2005

European Union: March 1, 2005 WPM already in circulation or in storage within the EU is not required to be treated and marked until Dec. 31, 2007.

Switzerland: March 1, 2005

Chile: June 1, 2005

Philippines: June 1, 2005 Partial enforcement starting January 1, 2005, WPM must be treated, but marking not required.

South Korea: June 1, 2005 HT only for softwood packaging.

U.S.: September 16, 2005 Phase-in implementation since January 1, 2004; exemption granted to Canada.

Canada: September 16, 2005 Phase-in implementation since January 1, 2004; exemption granted to U.S.

Mexico: September 16, 2005 Phase-in implementation since January 1, 2004.

Brazil: September 16, 2005

Colombia: September 16, 2005

Guatemala: September 16, 2005

Turkey: January 1, 2006 Variation: Debarked WPM.

China: January 1, 2006 Variation: MB fumigation of softwood packaging must be 24-hours.

ISPM-15 Requirements: Compliance with ISPM-15 for wood packaging materials allows for two treatment options:

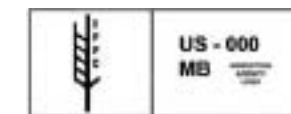
Heat Treatment (HT): Wood packaging material should be heated in a schedule that achieves a minimum core temperature of 56°C for a minimum of 30 minutes. The American Lumber Standards Committee administers the U.S. certification program for heat treatment.

Methyl Bromide (MB) Fumigation: The wood packaging material should be fumigated with methyl bromide. NWPCA has been tasked by the U.S. Animal and Plant Health Inspection Service to administer the fumigation program.

NOTE: ISPM 15 requirements apply to all species of coniferous (softwood) and non-coniferous (hardwood) packaging materials.



Heat-treated mark.



Fumigation mark.