

## Penta and the environment

### The Facts

Penta poles have a 60-plus year track record of environment safety and proven performance. When using and disposed of properly, penta-treated utility poles are wise environmental choice.

*Penta-treated wood has a number of important environmental advantages:*

Penta is **biodegradable**. Studies show that sunlight and bacteria break down trace amount of penta that may enter the soil, water or air, unlike the metals that can leach into surrounding soil from other types of treated wood.

Penta's **low vapor pressure** and high absorption quality enables most of the chemical to stay inside the wood. In addition, penta low water solubility means that any trace amounts of penta that may enter the soil near a pole will not travel very far.

Penta is **not a PBT**. According to recent data submitted to the U.S. Environmental Protection process, penta has a half-life of 14 to 63 days in soil and 5 to 34 days in water. In the atmosphere, penta's reported half-life ranges from a few hours to a few days depending on atmospheric conditions.

treated wood poles **save roughly 32 million barrels of oil per year** in saved energy costs related to production, compared to alternative poles materials.

Penta's **in-service life span of more than 40 years** mitigates the need for frequent replacement, thereby helping preserve valuable forest resources.

Penta poles significantly **lessen the risk of electrocution** to lineman and wildlife because they are not conductive as some other non-wood poles.





## The Facts

Penta retains the natural appearance of the wood that it is treating. Consumers prefer the “tree-like” look of penta poles to the intrusive visual of non-wood poles.

Penta maintaining the highest level of the cost-effective, in-service performance. Over the past two decades, micro-contaminants in penta have been reduced dramatically, and manufacturers continue to seek new, practical ways to produce penta of even higher purity.

## Penta Poles are Durable, Reusable and Recyclable

Penta-treated utility poles have a proven record of all-weather durability and typically last more than 40 years. Penta help reduce waste because it give poles lasting properties, such as:

- **Moisture resistance** Penta treatment reduces checking and pole twist,
- **Resistance to insect damage** Penta replace termites and other wood-eating insects.
- **Non-corrosive** Penta is not corrosive to pole hardware

### *Fire resistance*

Penta poles display minimal damage when exposed to grass or brush fire. In fact, penta poles do not smolder and often self-extinguish after a fire.

**DuraPine** HD Penta

Even after they are removed from service, penta poles still have useful life. Because they are not considered to be a hazardous waste, penta poles can be reused and recycled in a number of ways, such as fence posts, lampposts and supports for vehicle shelters. They also can be burned for energy in combustion units and industrial boilers that are allowed to burn treated wood because penta does not contain any metals, unlike some other wood preservatives.

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