

TITANIUM NEWS

A concise and timely report on Titanium and Titanium Recycling

Suisman Titanium Corporation



One of the
Metal Management Aerospace, Inc. companies

MANUFACTURERS OF FINE RECYCLED TITANIUM PRODUCTS



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titanium™

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The Energizer Bunny Gets Energized

Titanium formula increases power

"The power to keep you going and going" just got stronger. According to the Energizer Company, its new premium battery, the Energizer® e2™, has an enhanced titanium formula and cell design to provide longer lasting performance. The e2 (pronounced as e squared) lasts up to two-times longer than ordinary alkaline batteries in devices that drain power rapidly. These devices include portable computers, cell phones, and digital cameras.

Energizer has several patents approved and pending arising from the new formula, including one for the advanced titanium technology. While the formula is proprietary, it can safely be assumed that one of the problems Energizer's R & D engineers had to solve was titanium's tendency to act as an insulator in a battery, inhibiting the free flow of energy.

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Energizer's toy bunny, which kept "going and going" in a long series of commercials, has morphed into a superpower residing inside an e2™ titanium battery. The change is meant to convey interior power made possible by new titanium technology.

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Titanium Hammer Makes Believers of Skeptics

A featherweight takes on the heavyweights

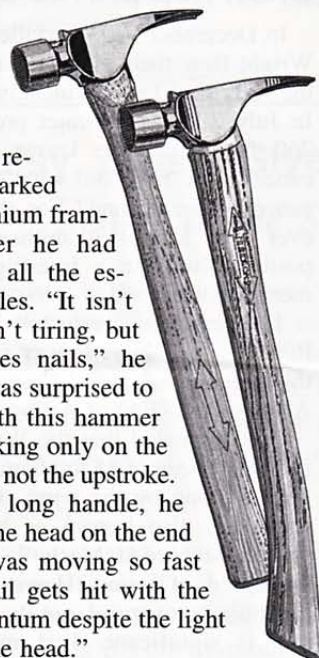
"It feels like a toy but nails like a weapon," wrote one smitten tool tester about a titanium hammer produced by Stiletto Tool Company of Atwater, California. Another said that he had stripped concrete forms with it without dulling the claws. "The Titan is a tough hammer," he wrote.

Now the company has introduced its first all-titanium hammer with a steel face. It joins a line of investcast titanium hammers that are nearly half the weight of conventional hammers. The new Ti-Bone, as it is called, is available in 10, 12, 14 and 16-ounce models.

Mark Martinez, president and CEO, said that the initial reaction among carpenters was skepticism because they thought titanium would be too light to achieve driving power. In fact, the lightness of titanium combined with a longer handle (18 inches) creates a greater head velocity with less effort. "The first time people try it, they tend to over-swing, but once they get the hang of it, they don't want to go back to their 24-ounce behemoths," Martinez said. "This is one hammer where a slower swing works better. Plus there is no shock or recoil, so people can work longer without getting tired."

In an article for *Canadian Home Builder*, the reviewer remarked that the titanium framing hammer he had tried broke all the established rules. "It isn't heavy, it isn't tiring, but it still drives nails," he wrote. He was surprised to find that with this hammer he was working only on the downstroke, not the upstroke. Due to the long handle, he found that the head on the end of the arc was moving so fast that "the nail gets hit with the same momentum despite the light weight of the head."

According to Martinez, a titanium hammer can significantly decrease the incidence of carpal tunnel syndrome and other repetitive motion, stress-related injuries. It is particularly helpful in situations where a carpenter is working overhead for an extended period of time and needs greater control. **Ti**



Titanium Demand in Steep Decline Worldwide

A sharp drop in the production of aircraft following the terrorist attacks on the World Trade Center and the Pentagon has adversely affected the entire industry. With every major airline slashing orders for new aircraft, and moth-balling underused aircraft, titanium producers around the world immediately followed suit and cut output.

Finding themselves producing far ahead of their orders, titanium forgers took corrective steps, postponing the titanium due for delivery in the first and second quarters of 2002.

The tragedy compounded an economic slow-down that had already stretched delivery lead-times beyond the six-month point. In 2000, a lead-time of four to six weeks was the norm. In November, 2001 the slow-down was officially declared a recession.