

The Difference Between PMC+ and PMC3

by Tim McCreight

The difference between PMC+ and PMC3 has to do with the different sizes of the silver crystals (not molecules). Imagine filling a telephone booth with basketballs. This is a metaphor for Original PMC. Large crystals, with good sized spaces in between the balls. Picture the points of contact, and you'll realize that even in a large space like a phone booth, there are very few places where the balls touch each other. This and the spaces explain why Original PMC is porous and not real strong.

Now imagine mixing a bunch of softballs in there. Shake it up, and the smaller spheres will fall into the voids between the big spheres. This is a mental picture for PMC+. There are many more points of contact, which is why the metal is stronger.

Now, empty the phone booth and this time fill it with a combination of softballs and golf balls. The small spheres will again drop into the spaces between the larger spheres, but because both are smaller than the other situation, there are many, many times more points of contact. That explains why this version is not only strong, but can be joined quickly. With all those tangent points eager to bond, all it takes is a little heat to create a network of strong fused points.