

# Econosil®

For Low Temperature Metal Direct Casting

## Technical Datasheet



**Castaldo Econosil® Jewelry Molding Rubber is a harder, firmer but still flexible version of our Castaldo Super High Strength™ silicone jewelry molding rubber at a lower cost.**

Econosil is the fast & easy way to mold and cast almost anything in metal. Econosil is a brick-red/brown color and is lined with special release paper on both sides.

Use it to make:

Toy soldiers - Chess pieces - Fantasy figures - Cabinet knobs - Fishing lures - Jewelry - Machine and tool parts - Everything and anything!

Econosil can withstand temperatures up to 660°F / 350°C. It can be used to cast lead, pewter, tin, zinc and other low temperature melting alloys.

Econosil Jewelry Molding Rubbers is available in:

Traditional strips: 18" x 2 7/8" x approximately 3/8" / 45.7 cm x 7.3 cm x approximately 6 mm. Packaged in attractive, consumer-oriented boxes weighing 5 lbs. / 2.27 kg. It is packed 10 boxes to a carton for a total net weight of 50 lbs. / 22.7 kg.

### Name

**Econosil**

Shore A Hardness

**48-50**

Vulcanizes at

**165 - 176°C**

Rubber Shrinkage

**Low  
1.1%**

Break Elongation

**555%**

Break Tensile Strength

**6.2 n/mm<sup>2</sup>**

Break Tear Strength

**19.4 n/mm<sup>2</sup>**

Uses

**Firm molds, suitable for large items, fine filigree and high precision**

\*Shrinkage rates given are for the rubber mold itself. Final casting shrinkage rates depend on moldmakers and caster's skill, knowledge, precision and attention to detail.



## Silicone Molding Rubber



Castaldo Silicone Molding Rubber is soft and pliable, with a consistency like putty or molding clay.

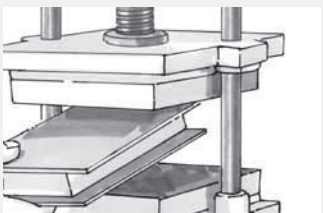
Mold frame packing with Castaldo Silicone Molding Rubber is fast, easy and requires no tools.



Placing and embedding the model exactly as you want is simple.



Curing Castaldo Silicone Jewelry Molding Rubber Molds involves no mixing, limited working times or de-bubblizing. Simply put it in your vulcanizer at 330°-350°F (165°-177°C) for 15 minutes per 1/4 inch (6mm).



Castaldo Silicone Jewelry Molding Rubber Molds are easy to cut, reducing hand fatigue and increasing control. Users say they "Cut like butter".



Parting lines are easily controlled and corrected by hand when used with the powder separation technique.



Finished molds can be simple or complex with cores, straight plugs or even spiral plugs. Castaldo Silicone Jewelry Rubber Molds are strong and tear resistant and can last for years and years.

**BURNING IN SPRUES:** CASTALDO® silicone jewelry molding rubbers can be burned in the usual manner to add sprues or correct details but higher temperatures are needed. Use adequate ventilation!

**CAUTION:** Vapors given off during vulcanization may produce temporary eye, nose and throat irritation among certain susceptible individuals. Use with adequate ventilation.

**STORAGE:** As with any unvulcanized rubber compound, store away from any source of heat and light. Unvulcanized shelf life is at least one year if properly stored except for low-temperature cure compounds. The storagelife of those compounds can be severely shortened by unintentional exposure to heat in shipping and storage.