

# LECO Evacuated Metal Immersion Samplers for Hydrogen Analysis

## Part Numbers

A LECO Hydrogen Sampler has a nine-digit part number. The first five digits designate the sampler type, and the final four digits indicate the mounting. All LECO samplers can be ordered mounted in holders with protective shielding appropriate for the type of sampling to be performed. Tube length sizes other than those listed below are available.

### Evacuated Steel Sampler with Inner Steel Pin

903-9A3-174 3-foot Cardboard, 6-inch Non-Splash Sleeve without Anti-Skull Coat

903-9A3-184 3-foot Cardboard, 6-inch Non-Splash Sleeve with Anti-Skull Coat

903-9A3-124 3-foot Cardboard, 12-inch Non-Splash Sleeve without Anti-Skull Coat

903-9A3-194 3-foot Cardboard, 12-inch Non-Splash Sleeve with Anti-Skull Coat



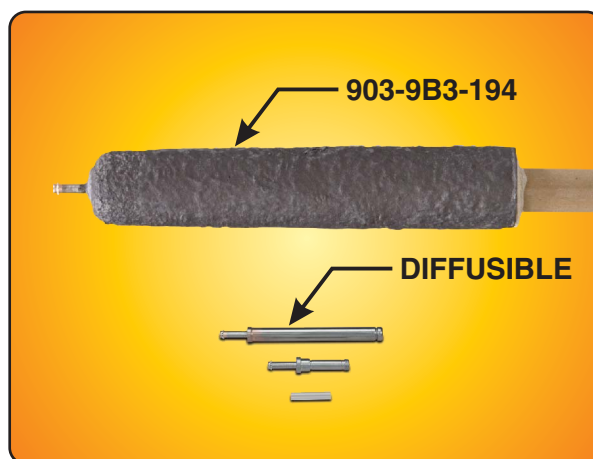
### Evacuated Steel Sampler with Quartz Lining

903-9B3-174 3-foot Cardboard, 6-inch Non-Splash Sleeve without Anti-Skull Coat

903-9B3-184 3-foot Cardboard, 6-inch Non-Splash Sleeve with Anti-Skull Coat

903-9B3-124 3-foot Cardboard, 12-inch Non-Splash Sleeve without Anti-Skull Coat

903-9B3-194 3-foot Cardboard, 12-inch Non-Splash Sleeve with Anti-Skull Coat



## Evacuated Metal Immersion Samplers for Hydrogen Analysis

Sampling with evacuated metal samplers is a quick, efficient, one-person procedure. The sampler is immersed in molten metal for 1 to 3 seconds and, after rapid chilling in water, the sampler is placed directly into the analyzer or can be stored at room temperature for several hours without hydrogen loss. The same sample is analyzed for both diffusible and residual hydrogen.

The sample obtained from the patented LECO Evacuated Metal Sampler is 3.86 mm ID x 62 mm long (0.152 in. x 2.44 in.). The sampler is used to obtain samples from a furnace, ladle, LMF, ingot mold, caster mold, or tundish. The sampler is then placed directly into the piercing unit of the LECO DH603 Total Hydrogen Determinator for diffusible hydrogen analysis. Then the outer tube is removed, the inner tube is cut off (providing a 5 gram sample), and the pin sample is removed for residual hydrogen analysis.

The sample obtained from the patented LECO Quartz-Lined Metal Sampler is 5 mm ID x 34.29 mm long (0.197 in. x 1.35 in.). It is also used to obtain samples from a furnace, ladle, LMF, ingot mold, caster mold, or tundish and then placed directly into the piercing unit of the DH603 for diffusible hydrogen analysis. After diffusible analysis, the outer tube is removed, the inner tube is cut off, and the pin sample is removed for residual hydrogen analysis. The quartz-lined metal sampler provides an exceptionally clean pin for residual analysis with no inner tube jacket attached, thus allowing the exact weight of the pin to be determined.



*Specifications and part numbers may change.  
Consult LECO for latest information.*

3000 Lakeview Avenue • St. Joseph, MI 49085 • Phone: 800-292-6141 • Fax: 269-982-8977  
info@leco.com • www.leco.com • ISO-9001:2000 • No. FM 24045 • LECO is a registered trademark of LECO Corporation.