



SA-60



SA-61



SA-62



SAA-10P



SAA-8



SA-65

ATTERBERG_g LIMITS ASTM D4318; AASHTO T 89, T 90

Liquid Limit is the water content at which soil changes from liquid to plastic state. It is arbitrarily defined as that point where two halves of a soil sample flow together when jarred 25 times in a specified manner using a Liquid Limit machine.

Gilson offers motorized or hand-crank operated machines with automatic impact counter, and a budget hand-crank model without counter. All models consist of a brass cup suspended from a carriage designed to control its drop exactly 1cm onto a hard rubber base. Height of drop is adjusted by a nut at the rear of the cup carriage using the gauge at one end of the plastic Casagrande grooving tool (SAA-10P) included. Order separate SAA-8 grooving tool for testing to AASHTO T 89. The cup attaches to the carriage by a pin allowing easy removal for cleaning and inspection. All mechanical parts are machined from solid brass. Rubber feet isolate base from work surface. One SAA-10P included with all Liquid Limit Machines. Additional SAA-10 and SAA-10P Casagrande metal grooving tools are available.

Motorized SA-60 with counter is most accurate with use of a special geared motor assuring proper operating speed of 1.9—2.1 drops per second. An on-off switch is provided. Hand operated SA-61 is 6.5x6x5in (165x152x127mm), LxWxH; Hand operated SA-62 with counter is 6.5x7x5in (165x178x127mm), LxWxH. **Product Dimensions:** 12x7.5x6in (305x191x152mm), LxWxH.

Plastic Limit is defined as the water content at which a soil can no longer be deformed by hand rolling to 1/8in (3.2mm) diameter threads without crumbling.

Main items needed for this test are SA-66 Glass Plate and SC-400 Aluminum Containers, both included in SA-65 Accessory Set, or available separately.

SA-65 Atterberg Limit Accessory Set provides items necessary to perform liquid and plastic limit tests in accordance with ASTM D4318, including MA-278 evaporating/mixing dish, SA-66 ground Glass Plate 12x12x3/8in (305x305x10mm) with seamed edges, 24 aluminum containers 2in dia. x 0.9in H (51x22mm) with snug-fitting lids, SC-77 wash pan, HMA-10 wooden-handled spatula with stainless steel blade 3/4in x4in (19x102mm), WxL, and an HMA-24 250ml polyethylene squeeze wash bottle.

ATTERBERG_g LIMITS

Liquid Limit Machine Motorized, with Counter, 115V/60Hz	SA-60
230V/50Hz	SA-60F
Liquid Limit Machine Hand Operated.....	SA-61
Liquid Limit Machine Hand Operated, with Counter	SA-62

Accessories

Grooving Tool, AASHTO	SAA-8
Grooving Tool metal, Casagrande ASTM	SAA-10
Grooving Tool plastic, Casagrande ASTM, pkg. 10.....	SAA-10P
Brass Cup with Mounting Holes	SAA-11
Brass Cup with Holder.....	SAA-12
Liquid & Plastic Limits Set	SA-65
Glass Plate	SA-66

