

Accu-Dent System 2 Impression System (Project 01-02) (01/02)

The Accu-Dent System 2 is a new impression system for removable partial dentures. The system uses the Accu-Gel impression materials, which are chemically compatible, irreversible hydrocolloid impression materials that differ in viscosity. The low-density (syringe) material is injected into the vestibular and dentate areas while the high-density (tray) material is used in the tray to support the syringe material and form a type of "custom tray" in the mouth. The system comes with special, autoclavable, plastic, perforated impression trays (see picture at right) that Ivoclar Vivadent claims can be easily modified for special cases. The Accu-dent impression materials are said to be also indicated for immediate dentures, orthodontic impressions, athletic mouthguards, occlusal splints, and bleaching trays.

Manufacturer:

Ivoclar Vivadent, Inc.
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Suggested Retail Price:

\$275.00 Accu-Dent System 2, includes:
-12 Accu-Dent Trays (6 maxillary, 6 mandibular)
-1 box (18 packages) of Syringe Accu-Gel
-1 box (18 packages) of Tray Accu-Gel
-1 plastic tray storage box
-2 sterilizable 35-cc impression syringes
-1 water measuring vial
-1 thermometer
-2 Pre-Sure Tip soft applicators
-2 Pre-Sure Tip medium applicators
-1 tray holder
-1 Finger Grip Extender
-1 System 2 complete procedure booklet
\$17.00 Syringe Accu-Gel Refill (24 packs, 5 gm each) item number 820021
\$27.50 Tray Accu-Gel Refill (24 packs, 20 gm each) item number 820022

Government Price:

\$165.00 Accu-Dent System 2 (contents as listed above)
\$10.20 Syringe Accu-Gel Refill (as listed above)
\$16.50 Tray Accu-Gel Refill (as listed above)

ADVANTAGES:

- + Kit comes with all items needed for making irreversible hydrocolloid impressions.
- + Is a suitable impression material for the fabrication of removable partial dentures, nightguards and sleep apnea appliances.
- + Impression trays were rated highly by clinical evaluators.
- + Easy to mix and dispense.
- + Well tolerated by patients.
- + Acceptable working and setting times.
- + Meets ANSI/ADA Specification No. 18 requirement for gypsum compatibility and detail reproduction for irreversible hydrocolloid impression materials.
- + Instructions contain adequate detail, are easy to read, and complete.
- + Compact packaging.

DISADVANTAGES:

- Impression material is considerably more expensive than other commonly-used irreversible hydrocolloid impression materials.

SUMMARY AND CONCLUSIONS:

The Accu-Dent System 2 is an irreversible hydrocolloid-based impression system that is primarily recommended by the manufacturer for producing removable partial denture master casts. The Accu-gel impression materials met ANSI/ADA requirements for alginate materials and exhibited acceptable working and setting times. Clinical evaluators reported that the material was easy to mix and dispense. Patients tolerated it well, in part because it did not flow out of the trays as much as traditional irreversible hydrocolloids. Clinical users found the impression trays very useful and appreciated their customized design which made it easier to make successful impressions. The Accu-Dent System 2 was found to be excellent for making RPD final impressions and in the fabrication of nightguards and obstructive sleep apnea appliances. The main disadvantage is that the Accu-Gel impression materials are much more expensive than traditional irreversible hydrocolloid materials. The **Accu-Dent System 2** is rated **Acceptable** for use by the federal dental services.