



Clean Like a Pro

Cleaning a Variety of Surfaces with PK-200

Whether at home or on the job, what's the first product reached for when something needs to be cleaned? Admittedly, first a rag has to be found, but after that, it's the all-purpose cleaner, of course! An all-purpose cleaner is the workhorse of any home or facility. And because it's required to clean so many different kinds of soils from so many different kinds of surfaces, it must be uniquely formulated.

This formulation must be designed to deal with more than mere "dirt" or "dust". Indeed, as the following table shows, even household soil is composed of an amazingly wide array of different substances.

Make-up of Household Dust	
<i>Component</i>	<i>Percent</i>
Sand, clay, quartz, feldspar	45
Animal fibers	12
Cellulosic materials	12
Resins, gums, starches	10
Fat, oils, rubber, tar	6
Gypsum	5
Limestone, dolomite	5
Moisture	3
Undetermined	2

Over time, these different substances bond together, forming a tenacious soil mix. For instance, consider the oily soil types, which are often aerosolized by cooking and spread over different surfaces in the home. Once

a thin layer of oil or grease has been deposited, it acts as a magnet for other soil types. Over time, this complex mix of soil becomes encrusted and may be extremely difficult to remove.

The surfaces to which this tenacious soil becomes attached are of almost limitless variety. But, roughly, they can be divided into five basic types: glassy, wood, plastic, metal and fibrous. Some materials, like wood and fibrous types, are extremely sensitive to the cleaning process. Other materials have a high surface energy, creating an extremely durable grip between the surface and the soil.

Keeping all of this in mind, Kleenco's PK-200 has been uniquely formulated both to remove a wide variety of soil types, and to be effective on a wide variety of surfaces.



PK-200's Unique Formulation

The backbone of PK-200's remarkable cleaning efficacy is its unique combination of surfactants. Most household cleaners, including those found on supermarket shelves, are formulated using a single inexpensive surfactant. Such simple formulations can cause several problems, including:

- too much or too little foaming
- poor rinsing

- ineffective soil suspension

Kleenco has evaluated hundreds of different surfactants and combinations of surfactants. We have developed a proprietary blend that has outstanding performance in hard or soft, cold or hot water conditions. This synergistic blend has been proven effective at penetrating and dissolving greasy encrusted soils without excessive foaming.

And, using an extremely versatile solvent that contains both an ether and alcohol functional group, PK-200 effectively dissolves the greases, fats, oils, and waxes that bind encrusted soils. Once dissolved, fats, oils and resins are converted from soil to soap by a process called saponification. In essence, some soil types, once dissolved by PK-200, actually aid in cleaning.

In addition, PK-200 contains an optimum proportion of alkali and soluble silica for heavy-duty cleaning. This combination removes particulate soil like clay by negatively charging both the soil and the surface, breaking the soil into fine particles and suspending them in the cleaning solution. This negative electrical charge also works as a repelling force, keeping the finely divided particles from forming any hard-to-rinse films.

To make sure PK-200 not only starts out strong but finishes strong, Kleenco has added a pH stabilizing buffer. A stable pH is especially important in cleaning kitchen surfaces. High loads of oily soils can lower the pH of unbuffered cleaners, decreasing performance as cleaning progresses.

To protect metal, glass, and ceramic surfaces, PK-200 also contains a special monomeric silica, which forms a negatively-charged insulation, blocking corrosion.

Versatile

PK-200 is extremely versatile. Diluted with water and applied with a spray bottle, it can be used to clean natural stone, formica and ceramic countertops. It cleans streak-free on stainless steel appliances, metal and plastic furniture, vinyl upholstery and white wall tiles. And, because it's formulated as a concentrate, when used undiluted it can handle heavy-duty challenges.

Companies such as Hewlett Packard have used it to clean refurbished office computers. King County Metro Transit has used PK-200 to dissolve diesel encrusted soils from the back of transit busses. And Pacific Coca-Cola

Bottling Company has used it to clean bottling equipment, plant floors and material handling equipment. It has become an essential component of the cleaning process of Tokai Carbon, USA, in removing the tenacious soils that settle on plant equipment, furniture and fixtures as a result of their production of high quality carbon and graphite products. Not only can it handle cleaning jobs in the home, it is also perfect for general cleaning in industrial or commercial settings.

PK-200 is the right fit for any cleaning program, whether at home or in the shop. When you demand high-performance, choose the specially formulated all-purpose cleaner: PK-200. We hope you'll give PK-200 a try, because we know that if you do, you'll love it. Thank you for your time.

Regards,

Dale R. Silbaugh

President

Kleenco Products, Incorporated