

## P 20 SPRAY

### **Non-flammable, fast evaporating, no residue, safe cleaner for electrical contacts especially involving sensitive plastics**

#### **Product Description**

ASV® P 20 is a non-flammable blend of high purity, inert and plastic safe cleaners formulated specially for use on sophisticated electrical / electronic equipment involving metal and plastic combinations. This fast drying contact cleaner is non-conductive, does not leave any residue, has zero to practically nil odor and is non-toxic.

It has a very low viscosity, low surface tension and quickly penetrates minute crevices, cracks or pores to clean the surfaces and safely rinses off oils, grease, dust, fingerprints, silicones, oxides, carbon or moisture.

ASV® P 20 has a very low Global Warming Potential and does not contain any CFC's, HCFC's, chlorinated solvents or any Ozone Depleting Chemicals.

ASV® P 20 is the most suited product for cleaning contaminants and particulate matter from metal and non-metal parts.

#### **Benefits**

- Fast penetrating and rapidly evaporating non-flammable high purity cleaner suitable for 'on-line' cleaning applications
- Low surface tension and superior wetting abilities ensure effective cleaning
- Cleans equipment fast and leaves no residue or oily films
- Non-staining, nonabrasive, nonconductive & non-corrosive
- Quickly dislodges contaminants from precision electrical / electronic equipment
- Extends wear life of the equipment and reliability of performance
- Prevents intermittent failure of equipment
- Safe on most plastics, metals, rubbers, insulation materials
- 360° valve allows product to be sprayed in any position

#### **Cleaning Performance**

ASV® P 20 is effective in cleaning fine particulate (submicron range) from metal and non-metal substrates. Removal of particle contamination requires a cleaner that can minimize the thickness of the laminar boundary layer where particles are bonded to the substrate. If the boundary layer thickness is less than the particle diameter, momentum from the flowing cleaner can efficiently dislodge the particles and carry them away.

The unique physical property of ASV® P 20 including high density, low viscosity, low surface tension combined with non-flammability, chemical and thermal stability results in a thinner boundary layer and makes it ideal for a broad range of cleaning applications.

#### **Applications**

Contacts, controls, relays, PCB's, switches, motors, connectors, generators, ignition systems, terminals, sensors, circuit breakers, plugs & sockets, fuse boxes, transformers, switchgears, bearings, generators, gears, tuners, busbars, connectors, potentiometers, solenoids, capacitors, communication equipment.

#### **Directions For Use**

Spray liberally on the surface to be cleaned till the cleaning agent runs off as clear. Use extension tube for hard to reach areas. Use an abrasive or brush to clean heavy oxides or other deposits. Spray starting at the top and finishing at the bottom. Test on plastics before use.

## P 20 SPRAY

### TECHNICAL PROPERTY

Parameter	Unit	Value
Type		Heavy duty plastic safe precision electronics & equipment cleaning agent
Appearance		Liquid
Color		Colorless
Odor		Practically nil
Viscosity		0.67 centipoises
Specific Gravity @ 25° C	g/cm <sup>3</sup>	1.45-1.60
Surface Tension	dynes/cm	14.1
Flash Point	° C	None
Boiling Point	° C	55
Freezing Point	° C	-80
Solubility		< 140 ppm in water
Vapor Pressure	kPa	30.1
Percent Volatile	%	100
Evaporation Rate		Very fast
Special Properties		Zero ozone depletion and low global warming potential Ideal replacement for CFC's, HCFC's and other ozone depleting substances

\* of active ingredients

### General

Use in well ventilated areas. Avoid continuous breathing of vapor and spray mist. In closed areas or areas with poor ventilation, use respiratory protection. For complete details on safety, short and long term exposure, refer to this product's safety data sheet (SDS).

### Disposal

All used and unused product should be disposed of in accordance with state regulations.

### Handling

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding personal protective equipment, safe use, physical and health hazards. Safety data sheet is available from ASV or your local ASV distributor.

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### Available Packaging

400 g aerosol spray

### Shelf Life

24 months from date of manufacture in sealed condition.

### Limited Warranty

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended ASV product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty. Product manufactured is for industrial use only.

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