

## AQUI-PAD DESCRIPTION

These pages are providing the “Specification Sheet” and the “Material Data Sheet”

	Aqui Pad Specification Sheet		
Product Description:	Meat Pad	Meat Pad	Meat Pad
Part No.	SF W 130/85-70	SF W 100/75-70 SF Y 100/75-70	SF W 150/100-130
Dimensions	130 mm x 85 mm	100 mm x 75 mm	150 mm x 100 mm
Materials and Construction	Single ply 18 GSM NWPP inner absorbent media impregnated with super absorbent polymer Outer layer is 15 Micron HDPE Food Grade and leach resistant Perforated Laminate with one centre seal and two end seals.	Single ply 18 GSM NWPP inner absorbent media impregnated with super absorbent polymer Outer layer is 15 Micron HDPE Food Grade and leach resistant Perforated Laminate with one centre seal and two end seals.	Single ply 18 GSM NWPP inner absorbent media impregnated with super absorbent polymer Outer layer is 15 Micron HDPE Food Grade and leach resistant Perforated Laminate with one centre seal and two end seals.
Absorbency Capacity	70 ml of distilled Water	70 ml of distilled Water	130 ml of distilled Water
Outer layer colour options	White	White, Yellow	White
Application	Supermarket meat trays also poultry and fish	Supermarket meat trays also poultry and fish	Supermarket meat trays also poultry and fish
Usage Recommendations	Place the meat pad with the outer layer perforations contacting the bottom of the tray, the top layer is impervious to prevent dehydration of the product.	Place the meat pad with the outer layer perforations contacting the bottom of the tray, the top layer is impervious to prevent dehydration of the product.	Place the meat pad with the outer layer perforations contacting the bottom of the tray, the top layer is impervious to prevent dehydration of the product.
Packaging	To be defined	To be defined	To be defined
Carton Dimensions	To be defined	To be defined	To be defined



Unit Price on Application

Price to be offered on application

Price to be offered on application

Price to be offered on application

*Statement of Food Contact*

Perforated HDPE laminate Film.

Description:

Perforated HDPE Film as used in the manufacture of Aqui-Pad Food Grade Absorbent Products, (P-8) laminated material of 12 GSM is a matte, clay-coated-two-side, biaxially oriented HDPE. Suited for flexo, thermal transfer, ion deposition, and dot matrix printing, its coated surface prints well on the non-laminated side, and is conducive to multiple color imprinting.

Water and chemical-resistant, Perforated HDPE Laminate demonstrates good resistance to UV with outdoor usage of up to 18 months. FDA approved for direct food contact HDPE side only. Dow Chemical laboratory report is available upon request.

Applications:

Direct Food contact (complies with FDA regulation USFDA 21 CFR 177-1520 (c) 3.2a. for use with direct food contact), Retail, Thermal Transfer and Outdoor/Durable opportunities and Markets where tags are exposed to harsh conditions or where prolonged shelf life is required.

End Uses:

USFDA applications, produce tags, meat, fish, cheese inserts, shellfish tags, and chemical-resistant applications.

Physical Property	ASTM	U. O. M	Result
Type of Material			HDPE
MD Tensile @ Failure	D 882	Mpa	33.69
MD Elongation	D 882	%	654.93
CD Tensile Failure Ultimate	D 882	Mpa	39.89
CD Elongation @ Failur	D 882	Mpa	890.27
Coefficient of Friction I to I	D 1894	-	370
Coefficient of Friction O to O	D 1894	-	40

Shelf Life

Unless specified otherwise in this document, one year when stored at 72°F at 50% RH

**Statement of Practical Use**

As with all food contact materials, the above described product should be tested thoroughly under end-use conditions, to ensure it meets the requirements of the specific application under USFDA food contact regulations.

**Warranty**

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**Materials Safety Data Sheet**  
 Super Absorbent Polymer  
 Aqua Keep SA

1 Product and Company Identification	Super Absorbent Polymer.	Sumitomo Seika Singapore PTE. LTD. 20 Cecil Street #20-08 Equity Plaza Singapore 049705
2. Chemical Name  CAS Registry	Acrylic Acid Polymer Sodium Salt  Registered	
3. Hazard Identification	Mechanical        Contact  Inhalation	Makes surfaces extremely slippery. When it has absorbed water, this material forms a gel that may make surfaces extremely slippery, posing a slip and fall hazard (among the other hazards associated with slippery surfaces). This effect is more pronounced with the finely ground products and fines (dust) from the granular forms.  Irritates eyes, may cause slight skin irritation.  Dust may cause respiratory irritation.

<p>4. Fire &amp; Explosion Data</p>	<p>Flammability</p> <p>Combustion Products</p> <p>Extinguishing Media</p> <p>Special Remarks for Firefighters</p>	<p>Combustible.</p> <p>Combustion and/or thermal decomposition may release acrylonitrile, carbon dioxide, carbon monoxide, hydrocarbons, hydrogen cyanide and nitrogen oxides, NOx.</p> <p>Water, Water Spray, Foam, CO<sub>2</sub>, Dry Powder (CAUTION Aquistract polymers absorb water and become very slippery and heavy when wet).</p> <p>May emit acrid fumes once heated to decomposition temperature. Flammability is enhanced by the presence of oxidizers. Dust explosions may occur if the material is sufficiently fine and dispersed in air. Makes surfaces extremely slippery when it has absorbed water, posing a slip hazard. This material absorbs water and swells enormously, becoming much heavier in the process. Once wet this material may pose a mechanical bursting hazard. Stacks of bags or palettes may become unsteady and topple. Supporting structures may fall under the added weight of the material once it has absorbed water.</p>
<p>5. Health Hazard Data</p>	<p>Route(s) of Entry</p> <p>Carcinogenicity</p> <p>Threshold Limit Value - TLV</p> <p>Acute Oral Toxicity (rat)</p> <p>Acute Dermal Toxicity (rabbit)</p> <p>Primary Eye Irritation (rabbit)</p> <p>Effects of Overexposure</p>	<p>Inhalation: yes as dust. Skin: no. Ingestion: unlikely, but if occurred it would cause severe dehydration and swelling of the stomach.</p> <p>NTP: no. IARC: no. OSHA: no</p> <p>Not Known.</p> <p>&gt;5.0 g/kg of body weight.</p> <p>&gt;2.0 g/kg of body weight</p> <p>Not a primary eye irritant.</p> <p>Dust may cause eye, nasal or respiratory irritation.</p>
<p>6. First Aid Measures</p>	<p>Eye Contact</p> <p>Skin Contact</p>	<p>Check for and remove contact lenses. Immediately flush eyes with plenty of water, lifting lids to rinse beneath, seek medical attention if warranted.</p> <p>Remove contaminated clothing. Wipe from skin</p>

	Inhalation	and wash affected area with soap and water. Treat any irritation symptomatically.  Remove victim to well ventilated area. If irritation develops seek immediate medical attention and provide the physician with this MSDS sheet. If breathing becomes difficult administer oxygen and call immediate medical assistance.
	Ingestion	If swallowed seek immediate medical attention as this material rapidly absorbs water and swells. Do not induce vomiting unless directed to by a physician.
7. Reactivity Data	Stability	Stable
	Conditions to Avoid	Not applicable.
	Hazardous Decomposition Products	Oxides of carbon and nitrogen. Thermal decomposition may release acrylonitrile, carbon monoxide, carbon dioxide, hydrocarbons, hydrogen cyanide and nitrogen oxides (NOx).
	Hazardous Polymerization	Not known to occur.
	Miscellaneous Issues	This material swells upon absorbing water and may pose a mechanical bursting hazard under certain conditions.
8. Accidental Release Measures	Dry Spill	<b>Do not rinse spilled area with water until the following steps have been taken.</b> Take measures to exclude foot and vehicular traffic to avoid spreading of the spilled material outside of the spillage area. Scoop up dry material and place in a suitable container for disposal. Sweep up dust and any remaining material. Use a vacuum cleaner to remove any powder residue if necessary. The vacuum cleaner must be fitted with a HEPA filter to prevent airborne contamination with respirable dust. Once wet remaining powder will cause surfaces to become extremely slippery, posing a hazard similar to ice. When all visible powder has been retrieved the area may be rinsed with water, but care must be taken to ensure that any slippery material is completely removed.
	Wet Spill	Exclude foot and vehicular traffic as above. Take precautions to avoid slipping or falling during the cleanup. Use scoop, shovel or squeegee to collect wet material into suitable containers for disposal. Dispose of material in accordance with national and local legislation.
9. Special Protection Information	Personal Protective Equipment	Protective clothing, gloves or protective eyewear are not required but recommended. Use appropriate NIOSH approved respirator if

	Ventilation	<p>required. Respirator selection must be based on contamination levels found in the work area. Comply with OSHA standards 29 CFR 1910.134 Respirator Protection and 29 CFR 1910.1000 Air Contaminants Permissible Exposure Limits. Eyewash and safety shower should be available. Follow good housekeeping and manufacturing procedures. After working with this material remove contaminated shoes and clothing and wash thoroughly with soap and water.</p> <p>Use general or local exhaust ventilation to meet OSHA PEL's or ACGIH TLV requirements.</p>
10. Handling & Storage	<p>Precautions</p> <p>Storage</p>	<p>Keep away from children. Keep away from food. Wear eye protection to keep dust out of eyes. Since this material may irritate skin, wear suitable clothing to avoid prolonged or repeated skin contact. Do not allow the dust to get into clothing. Do not ingest. Wash thoroughly at breaks, before eating and at the end of work. Or when finished handling the material. Never drink water that has been in contact with this product. Always wear a dust mask or respirator where there is possibility of inhalation. Keep material, especially dust, away from sparks or ignition sources. Avoid conditions where the material may become slippery due to coming into contact with water.</p> <p>Store in a cool dry place away from oxidizers. The shelf life of properly stored material should exceed one year. Store in original packaging in a cool dry position to avoid moisture absorption before use. Keep bags sealed.</p>
11. Exposure Controls & personal protection	<p>Engineering Controls</p> <p>Respiratory Protection</p> <p>Skin Protection</p>	<p>Adequate local exhaust should be provided when handling finely divided materials, or granular materials that may contain dust as fines. Exhaust air may require filtration. Avoid deposition of dust on surfaces that may become moist due to the extreme slipperiness of the wet material.</p> <p>Use appropriate MESA/NIOSH approved dust masks or respirators equipped with appropriate approved HEPA cartridges when particulate levels exceed, or may exceed 0.05 mg/m<sup>3</sup>.</p> <p>Gloves are recommended. No special type of protective clothing is required, but prolonged or repeated skin exposure should be prevented, as should the entry of dust between the body and clothing. A lab coat or conventional long sleeved garments and long trousers should suffice.</p>

	Eye Protection	Safety glasses with side shields or goggles should be worn to keep dust from the eyes. Avoid wearing contact lenses in the presence of dust.
	Hygiene Measures	To avoid accidentally ingesting this product, wash up at breaks and before eating.
12. Transportation	Department of Transport Classification	Non-Hazardous: Not regulated under US DOT Hazardous materials regulations (49 CFR 172 et seq.)
	Department of Transport Identification number	Not applicable
13. Disposal Considerations		Dispose of this material in accordance with all applicable Federal, State and Local regulations. Due to its persistence in aquatic media, discharge into drains sewers or waterways is not recommended. May be expected to clog septic systems. May be expected to swell and clog drains, filters and plumbing traps. Contaminated packaging can be land filled or incinerated, when in compliance with applicable Federal, State or Local regulations
14. Other Regulatory information	RCRA Status	Not a hazardous waste.
	Reportable Quantity (RQ)	Not applicable per 40 CFR Part 302
	Threshold Planning Quantity (TPQ)	Not applicable per 40 CFR Part 335
	TSCA Status	All components of this product are on the TSCA inventory.
	DSL Status	All components of this product are on the DSL.

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