



Experts in “What If...”

DURABLE DRUM LABEL PRODUCTS

Reference Guide



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GHS Related Changes and Impact on Labeling

Chemical drums transporting dangerous materials are subject to stringent safety regulations. Whether that container is being transported overseas, across highways or dispensed into a smaller container and moved from one end of the manufacturing floor to the other; the label on the container must communicate environmental, physical and health hazard information.

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) is a system created to standardize how chemical and hazardous information is communicated in manufacturing facilities and other workplaces. Quite simply, it is a global system for the classification, identification and labeling of chemicals. The objectives of GHS are to increase workplace safety, standardize products internationally and increase productivity. GHS effectively gives the world a common language for chemical identification and the implementation is required by law.

The International Maritime Dangerous Goods (IMDG) Code is a global system developed by the International Maritime Organization to enhance the safe transportation of dangerous goods, protect the marine environment and facilitate the free unrestricted movement of dangerous goods.

If chemicals being transported require IMDG certification and a self-adhesive label is being used, that label must be BS5609 certified. GHS defines what information and in what form it must be on the label as well as the minimum label size to be used. IMDG stipulates what type of label must be used.



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BS5609 - Labeling Hazardous Goods For Overseas Transport

BS5609 certification establishes durability standards for printed pressure sensitive labels applied to hazardous goods that are transported by sea. Labels affixed to chemical drums and barrels traveling overseas must have BS5609 certification. These labels need to withstand harsh marine conditions so if a lost or damaged chemical container is found, the information regarding its contents can be properly communicated and handled safely by those who found it. The BS5609 standard sets out various durability criteria including adhesive performance, print permanence and abrasion resistance for the label to be used in marine environments.

Section 2 - Adhesion Performance of the Base Material

Section 2 tests the durability of the label material and adhesive under marine exposure. Testing includes a three month salt water submersion in the English Channel. When a label is Section 2 compliant it means only the blank label (facestock and adhesive) is BS5609 Section 2 compliant.

Section 3 - Print Durability of Printed Pressure Sensitive Label

Section 3 testing certifies the printing systems, inks and ribbons used to print on the Section 2 approved base material. The printed label is tested for abrasion resistance and permanence of print. Tests include exposure to artificial weathering (salt spray and sunlight) and abrasion resistance (rolling in a mixture of sand and artificial sea water).

NOTE: Both the base material and the printed label must pass the various durability tests conducted in Section 2 and Section 3 in order for the finished label to be fully compliant.

BS5609 APPROVED PRODUCTS - Section 2

Catalog	Facestock	Adhesive	Liner	Print Method
W030841	3.3 mil Premium White Matte Inkjet Polypropylene	SW-77	50# SC	Inkjet
W030842	3.3 mil Premium White Matte Inkjet Polypropylene	i8017	50# SC	Inkjet
W034092	4.5 mil White Matte Kimdura® Inkjet	i8017	50# SC	Inkjet
W034559	4.5 mil White Matte Kimdura® Inkjet	SW-77	50# SC	Inkjet

BS5609 APPROVED PRODUCTS - Section 3

Catalog	Facestock	Adhesive	Liner	Print Method
W030841	3.3 mil Premium White Matte Inkjet Polypropylene	SW-77	50# SC	Inkjet
W030842	3.3 mil Premium White Matte Inkjet Polypropylene	i8017	50# SC	Inkjet
W034092	4.5 mil White Matte Kimdura® Inkjet	i8017	50# SC	Inkjet
W034559	4.5 mil White Matte Kimdura® Inkjet	SW-77	50# SC	Inkjet

Certificates can be found on wausaucoated.com in our **About Us** area

In order for the finished label to be fully compliant and receive BS5609 certification, label converters need to have the printer, inks and ribbons used to print on the Section 2 certified base material certified under Section 3 testing.

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Labeled Goods Not Traveling Overseas

For those chemical drums and barrels not traveling overseas, a non BS5609 certified drum label will be sufficient as long as it meets GHS labeling criteria. The durability of the label is still important because the drum or container is handled and moved, and not always stored in ideal conditions or environments.

Under OSHA Standard 1910.1200, OSHA requires all employers to have a workplace labeling system for secondary chemical containers. Failure to have a workplace labeling system is considered a SERIOUS violation by OSHA.

Whenever employees transfer chemicals from a primary container to a secondary container, workplace labels must be placed on the secondary container. OSHA requires all employers to clearly specify their workplace labeling strategy in their written Hazcom safety program by June 1st, 2016.

Whether you need secondary pressure sensitive labels to meet OSHA requirements or durable label options to meet BS5609 requirements, Wausau Coated offers a collection of reliable solutions for labeling drums and other industrial and commercial containers.



Performance Testing

Drum and container labels are exposed to harsh environments; they must be durable and meet the demands of their application. Wausau Coated understands the importance of the performance of these products; therefore, our technical team tests them in a Weather-Ometer and puts them through an abrasion test.

The Weather-Ometer is a chamber that delivers accelerated accurate, reproducible and repeatable results for predicting how our labels will withstand harsh conditions. This device exposes the label to different levels of temperature, humidity and light; proofing the color fastness of inks on the label. When product is placed in the Weather-Ometer, ASTM G155 Standards for testing are followed. This covers the basic principles and operating procedures for using light and water apparatus intended to reproduce the weathering effects that occur when materials are exposed to sunlight (either direct or through window glass) and moisture, such as rain or condensation, in actual use. The testing period can vary depending on how long the label is needed to withstand the weather.

Our abrasion test is a lab approved procedure that tests abrasion resistance of label material during transport and storage, and is similar to Section 3 of BS5609. This test has settings and procedures to be followed in order for the product to be deemed suitable for the conditions of the application. The label is abraded with a standard BS5609 Section 3 solution for a standard amount of time to determine label durability. Print method can be flexo, inkjet, or laser toner. Along with abrasion, this test also takes into consideration how well the label (face stock film or paper/PSA) adheres to stainless steel.

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Facestocks

Our Drum Label product line includes facestock options that will endure outdoor exposure, harsh chemicals and come in laser and/or inkjet print surfaces. It provides excellent resistance to chemicals and moisture in harsh environments when printed with pigment inks.

Kimdura® Inkjet is also a synthetic paper label facestock. It is designed for inkjet applications for chemical and industrial labeling. This facestock is certified for BS5609 part 2 and 3.

White Matte Inkjet Polypropylene provides excellent resistance to chemicals and moisture and is specifically engineered to perform in inkjet printing applications.

Adhesives

Our Drum Label facestocks are combined with the best adhesive for difficult applications.

i8308 is an ultra-aggressive permanent designed for difficult-to-label surfaces. It offers excellent initial tack and ultimate adhesion to a variety of substrates including metal, poly, and corrugated drums. **i8308 is UV resistant, water resistant, and chemical resistant.**

i8017 is an ultra-aggressive permanent adhesive designed for difficult-to-label surfaces and offers ultimate adhesion to a variety of substrates. **i8017 is UV resistant, water resistant and chemical resistant.**

SW-77 and SW-95 adhesives are general purpose permanent emulsion acrylic adhesives that provides aggressive adhesion to a variety of surfaces including metal, poly and fiber drums.

PCT-241 is an emulsion acrylic permanent that offers a very good adhesion to a variety of substrates including corrugated, rigid plastics, and painted metal substrates.

Catalog	Facestock	Adhesive	Liner	Print Method
W022805	3.1 mil White Matte Inkjet Polypropylene	PCT-241	40# SC	Inkjet
W027107	3.3 mil White Matte Inkjet Polypropylene	i8308	50# SC	Inkjet
W030841*	3.3 mil White Matte Inkjet Polypropylene	SW-77	50# SC	Inkjet
W030842*	3.3 mil White Matte Inkjet Polypropylene	i8017	50# SC	Inkjet
W035430	3.3 mil Premium White Matte Inkjet Polypropylene	PCT-241	40# SC	Inkjet
W034092*	4.5 mil White Matte Kimdura® Inkjet	i8017	50# SC	Inkjet
W034559*	4.5 mil White Matte Kimdura® Inkjet	SW-77	50# SC	Inkjet

*BS5609 Section 2 and 3 Certified

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“What If” means endless possibilities — a challenging and exciting process to invent and customize products based on your specific needs.

Together, with our technical team, we can develop your own specialized solution.



Wausau Coated Products is a second-generation, family-owned company, and a leading manufacturer of pressure sensitive (self-adhesive) roll label stock. Our commitment to fast and friendly service is only surpassed by our industry knowledge, our vast, high-quality product selection, and our ability to create new product solutions to solve customer challenges.

We provide users of Durable Label Products with a broad selection of paper and film substrates. We continue to expand our offerings and work closely with the OEMs (Original Equipment Manufacturers) to ensure that our products will consistently perform to your expectations.



Wausau Coated Products, Inc.

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Please contact your Wausau Coated Sales Representative with your specific application or end-use needs.

Stocked Products

Wausau Coated features a line of stocked pressure sensitive products for Durable Label Product solutions. All of our stocked items are available for immediate shipment with a low minimum order quantity. Trial rolls are available and recommended to determine the suitability of any product for a particular application.

Custom Products

In addition to our stocked items, we can mix and match many of our Durable Label Product facestocks with various adhesive technologies and liner options. Our knowledgeable and experienced sales team and technical staff work hand-in-hand to quickly turn a concept into a product, delivering solutions that will give you the competitive advantage. If you have a unique labeling project, contact our Customer Service Department and we will work with you to find a solution.

Sustainable Solutions

When it comes to labeling solutions that are eco-friendly, more products made with alternative fibers are becoming available. Whether it is water-based adhesives, FSC® certified options, products manufactured with 100% recycled or tree free fiber; we offer environmentally responsible roll label selections to fit your needs.