



Papertex Limited

Example from ASA Sizing Guide

Papertex

Typical Properties and Special Handling Considerations of ASA

The following information was taken from a typical product data sheet and is not meant to replace the PDS in your location and/or mill. The information that follows illustrates typical properties and handling considerations only. Please see the PDS on file in your location for exact properties and handling considerations!

Product Data for ASA

Form:	Clear liquid
Colour:	Amber
Odour:	Greasy
Solidifying point:	Approx. 4 °C
Boiling point:	250°C
Density:	0.94 g/cm ³
Solubility in water:	Insoluble
Flash point:	204 °C
Shelf life:	Minimum one year

Special Handling Considerations of ASA

ASA should be kept free of moisture at all times prior to emulsification. This is easily accomplished in bulk storage by use of sealed vessels equipped with a cartridge desiccator, nitrogen PAD, or **dry** mill air attachment (Note: Mill air systems often contain significant moisture content) and appropriate vent. The cartridge desiccators are typically equipped with a colorimetric window. The desiccant material should be charged according to guidelines recommended by the desiccator manufacturer. ASA in contact with extensive moisture (condensate or water) will hydrolyse. Hydrolysed ASA can become quite viscous and difficult to meter to the emulsification equipment. This will also adversely affect sizing performance.

Do not air pad unload ASA tank truck shipments. Mill air systems often contain significant moisture. Specify that the carrier be equipped to pump off-load ASA shipments using pumps and pipes that are clean and **dry**.

The filters for ASA just prior to the emulsification equipment size pumps should be examined and cleaned periodically. These filters should never be bypassed, as any contamination could damage the size pumps or affect performance of the size flow meters. The build-up on these filters may be intense in the early stages of use due to "slag," pipe threading files, etc. present in newly

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installed tanks and piping. The stainless steel cartridge filters can be removed and cleaned in the following manner to ensure no potential moisture contamination from ASA:

1. Direct the flow of ASA away from the filter to be cleaned.
2. Remove filter (wearing impervious work gloves) allowing excess ASA to drip from the filter into the canister.
3. Replace filter canister top.
4. Wrap the filter in paper towels and carry to an appropriate work station for cleaning.
5. Filter should be cleaned using warm water, detergent and a clean laboratory brush. The filter should be cleaned inside and outside to most thoroughly remove debris. Rinse off all detergent when clean.
6. Following cleaning, place the stainless steel filter in a laboratory oven (105°C or 220°F) for 5-10 minutes to drive off moisture. Be careful when removing the filter from the oven, as it may be hot to the touch. The filter is now ready to be re-inserted in the housing.

Avoid ASA contact with black iron.

Safety Information – ASA

The following is taken from a typical Material Safety Data Sheet is not meant to replace the MSDS in your location and/or mill. Please see the MSDS on file in your location for exact safety hazards!

Product Identification

Product Name: **Please consult you own company/mill product name**

Synonyms: Synthetic Size, ASA
Chemical Family: Alkenyl Succinic Anhydride
Molecular Formula: Mixture
Molecular Weight: Mixture

Warning

None

NFPA Hazard Rating



Handling and Exposure

ASA will react with moisture, including that present in the skin or eyes. Suitable protection should be worn to ensure that ASA does not come into contact with skin or eyes at any time. Contact with the skin should be washed off with soap and water immediately. Flush eyes extensively with water and seek medical attention.

Handling and storage

Storage period 12 months if kept free from moisture.

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