



These specifications apply to the acceptance and loading of ISO Containers at LyondellBasell (LYB) facilities, as well as at third-party facilities contracted by LYB

Product Handling Equipment Specification (PHES) - ISO Container	
Commodity [select from drop-down]:	Allyl Alcohol (AA)
SDS Number:	BE221
Refer to SDS section 14 for this product's transport classification	
General ISO Container Information:	
DOT Specification:	UN T-50, Bar pressure rating (typically carbon steel ISO container); ISO container must be in dedicated service to Allyl Alcohol and approved by LYB; ISO container must be in full compliance to LPG (T-50) specification; data plate information must be legible and correctly stamped; inspection documentation must be with driver as additional proof of inspection/test date verification to prevent equipment rejection
Insulation:	Preferred, not required; if insulation is not available, some type of radiant heat protection preferred
Heating Capabilities:	Prohibited; product to be kept away from heat
Gasket Material:	Teflon or Simriz 7295, or Kalrez only; must be in all openings and flanges of the ISO container; all openings and flanges must be sealed
Connections/Fittings:	All must be stainless steel or compatible with Allyl Alcohol, with solid closures containing seal points; protective housing (if applicable) must be capable of being sealed with a 1/8" cable seal
Liquid Connection:	2" to 3" standard LPG fitting with solid closure; bottom loading only with 3 solid closures; flanged closures preferred; all must be capable of being sealed with a 1/8" cable seal; piping protective housing required or must have written approval from LYB making exception; housing must be capable of being sealed with a 1/8" cable seal
Vapor Connection:	1.5" to 3" standard LPG fitting with solid closure; bottom venting only with 3 solid closures; flanged closures preferred; all must be capable of being sealed with a 1/8" cable seal; piping protective housing required or must have written approval from LYB making exception
Nitrogen Padding:	Nitrogen purged for drying, moisture, and flammable atmosphere control; clean ISO container must have a 5-7 psig pad upon arrival at loading facility; re-load/reuse container may return with last off-loading pressure or minimum of 5-7 psig

Tank Cleanliness:	If container is cleaned, a cleaning certificate is required showing the container is clean, dry, and odor free; if ISO container is a re-load, the prior LYB shipping documents are required as proof that last-contained was LYB material; ISO container must be on file with loading site as dedicated to LYB Allyl Alcohol
Strapping Chart:	Required; level gauge indicator also preferred
Hoses:	Hoses are not required to load at LYB facilities, and are not available for transport with ISO containers for export shipments
Additional Appurtenances:	Carrier should always note carrier's instructions field of the LYB shipping document for any additional equipment, driver's requirement, etc.; all opening to ISO container must be capable of being sealed with 1/8" wire cable seal; product labeling is required with container/driver upon arrival to loading facility; driver must ensure product name and all labelling is applied to both sides of ISO container prior to leaving loading facility; driver must have current and matching LYB shipping notice, Transwide call-off, or manifest document, and arrive at pickup point at the scheduled time to be accepted for loading; driver must always notify LYB of any requested light loading due to potential exceedence of gross legal weight
Misc. Restrictions:	No additional personnel in tractor unless team driver(s); pets are strictly prohibited
Acceptable Prior Cargoes:	Not applicable
Prohibited Prior Cargoes:	Not applicable
Disclaimer:	LYB reserves the right to reject any ISO container based on its actual condition or suitability as determined during on-site inspection and in accordance with applicable transport regulations