



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

| <b>Product Handling Equipment Specification (PHES) - Tank Trailer</b>      |  |
|--|--|
| <b>Commodity [select from drop-down]:</b>                                  | <b>Nitric Acid</b>   |
| SDS Number:  | BF3516   |
| <b>Refer to SDS section 14 for this product's transport classification</b> |  |
| <b>General Tank Truck Information:</b>                                     |  |
| DOT Specification:   | MC 307, DOT 407 (Stainless Steel Trailer)  |
| Insulation:  | Required   |
| Heating Capabilities:  | Not Required   |
| Gasket Material:   | Teflon rope, virgin teflon, white butyl rubber, or teflon encapsulated; dome gasket must give a leak free seal upon completion of loading; dome lid and all openings must have a seal point  |
| Connections/Fittings:  | All must be stainless steel with dust caps containing seal points, on all outlets of the trailer, capable of being sealed with a 1/8" cable seal   |
| Liquid Connection:   | 3" male kamvolok (dry connect) with sealable dust cap; bottom rear loader @ 90° angle (center loader requires approval from LYB); must have seal points; consignee may have specific equipment requirements listed in the LYB shipping document                            |
| Vapor Connection:  | 2" male kamvolok (dry connect) with sealable dust cap, piped to grade-level (GLV) with 2" stainless isolation valve upstream of fitting; inline pressure gauge at grade-level preferred; standard 3/4" top vapor connection may be acceptable with prior approval from LYB |
| Nitrogen Padding:  | Trailer must have 5-7 psig nitrogen pad upon arrival to load, and provide a leak free seal pre-and post-loading  |
| Tank Cleanliness:  | If not dedicated, a cleaning or reload certificate is required; a clean trailer must be clean, dry, and odor free; if trailer is reloading or topleading, a copy of the prior LYB shipping paper is required as proof that the last contained was LYB material             |

|                           |   |
|---------------------------|---|
| Strapping Chart:          | Required  |
| Hoses:                    | Hoses are not required to load at LYB facilities; there may be consignee-specific hose requirements listed on the LYB shipping document   |
| Additional Appurtenances: | Must have current LYB Shipping Notice document, Transwide call-off, or carrier manifest to be accepted for loading; driver must arrive at pickup point at the designated/pre-scheduled time; driver must always notify LYB of any requested light loading due to potential exceedence of gross legal load weight, or variance from consignee's ordered quantity |
| 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 trailer based on its actual condition or suitability as determined during on-site inspection and in accordance with US DOT regulations.  |