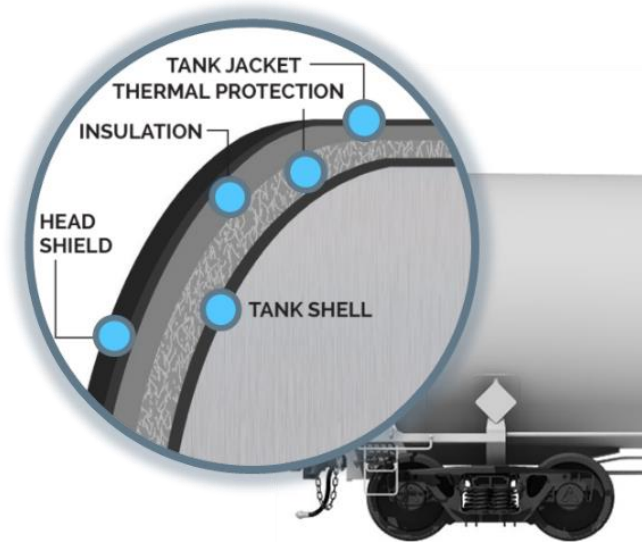


HAZARDOUS MATERIALS SAFETY TIP

TANK CAR ORIENTATION – PART II

Effective hazardous materials incident response and communication requires proper tank car orientation.

Part I of this safety tip focused on side and end orientation as well as the most important car markings to be aware of. **Part II** outlines the major physical characteristics of tank cars.



TANK SHELL. The cylindrical section of a tank car tank, without heads. Don't confuse the tank shell with the tank jacket.

THERMAL PROTECTION. A material or system applied to tanks to limit the transfer of heat to the tank in the event of exposure to fire.

INSULATION. A material enclosed within a metal jacket, used to maintain or moderate the temperature of the lading during transportation.

TANK JACKET. A metal covering surrounding a tank car tank designed to protect and secure the tank car's insulation and/or thermal protection systems.

HEAD SHIELD. A method of providing tank head puncture-resistance by mounting a metal shield on the end of a tank car to protect against punctures.

FULL SILL. The center longitudinal structural member that forms the backbone of the car's underframe.

STUB SILL. Draft sills at each end of the tank instead of a continuous center sill that utilizes the tank as part of the car structure.

PROTECTIVE HOUSING. On pressure and some non-pressure tank cars, a heavy, circular steel housing is located above the tank that protects the tank car's fittings.

SKID PROTECTION. A device attached to the bottom of a tank car to protect the bottom outlet, washout and/or sump.