

Objective: Prevent coal or mineral dust from blowing off of rail cars during transit

Solution: Spray apply a wetting agent to form a thin film over the coal or mineral surfaces.

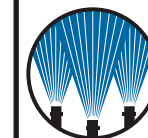
Equipment:

- Dual contoured pipe headers, each equipped with (10) H1/2U-SS VeeJet® spray nozzles with check valves to prevent dripping, and adjustable ball fittings for directional adjustment.
- Overhead catwalk to provide header mounting and maintenance access.
- Liquid supply unit with redundant centrifugal pumps, concentrate injection system, and electronic flow meters for flow monitoring and liquid usage totalization.
- Verify railcar present and speed sensor system for spray triggering and flow rate control.
- PLC based control system with color HMI to process speed sensor system inputs and control the system functions.
- Heat trace system for liquid lines and header for use in cold climates.

Application Parameters:

- Liquid deposition: 22 gallons per rail car
- Flow rate: 39 GPM based on rail car speed of 1 MPH
- Liquid pressure: 10 psi

DESCRIPTION:
**WETTING AGENT SPRAY
 NOZZLE ARRANGMENT
 FOR COAL AND MINERAL
 RAILROAD CARS DURING TRANSIT**



Spraying Systems Co.®
 Spray Nozzles and Accessories
 P.O. Box 7900 - Wheaton, IL. 60189-7900

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Application Drawing No.

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