

PENNSYLVANIA RAILROAD COMPANY.

PHILADELPHIA, BALTIMORE & WASHINGTON RAILROAD COMPANY.
NORTHERN CENTRAL RAILWAY COMPANY.
WEST JERSEY & SEASHORE RAILROAD COMPANY.

No. 30.—A.

Specifications for Cabin Car Color.

SUPERSEDING SPECIFICATIONS No. 30, DATED FEBRUARY 18, 1891.

The standard Cabin Car Color is the pigment known as Scarlet Lead Chromate. It must always be purchased dry in amounts as the demands of the service indicate.

The material desired under this specification, is the Basic Chromate of Lead, ($\text{PbCrO}_4, \text{PbO}$) rendered brilliant by treatment with sulphuric acid, and as free as possible from all other substances. The theoretical composition of Basic Lead Chromate, is nearly 59.20 per cent. of Normal Lead Chromate, and 40.80 per cent. of Lead Oxide, but in the commercial article it is found that a portion of the sulphuric acid added to brighten the color, remains in combination apparently, with the Normal Lead Chromate, slightly increasing the percentage of this constituent. The sulphuric acid thus combined, should not exceed one-half of one per cent. Samples showing standard shade will be furnished on application, and shipments must not be less brilliant than sample. The comparison of sample from shipment, with the standard shade, may be made either dry or by mixing both samples with oil.

A shipment being received at any Shop, a sample for analysis weighing about a quarter of a pound must be taken from the shipment and sent R. R. S. to Chemist, Pennsylvania Railroad Co., Altoona, Pa. This sample will represent the shipment, and will be analyzed in accordance with P. R. R. standard methods.

Shipments of Cabin Car Color will not be accepted which

1. Contain Barytes or any other adulterant.
2. Show on analysis less than 57.00 per cent. or more than 61.00 per cent. of Normal Lead Chromate, including the sulphuric acid combined as above stated.
3. Show on analysis less than 38.00 per cent. or more than 42.00 per cent. of Lead Oxide, in addition to Lead Oxide in the Normal Lead Chromate.
4. Vary from standard shade.

A. W. GIBBS,

General Superintendent Motive Power.

OFFICE OF GENERAL SUP'T MOTIVE POWER,
ALTOONA, PA., Sept. 1, 1903.