

## 1612 - GRAY-IRON CASTINGS

### SECTION 1612

#### GRAY-IRON CASTINGS

##### 1612.1 DESCRIPTION

This specification governs gray-iron castings that are subject to strength requirements.

##### 1612.2 REQUIREMENTS

**a. Physical.** The cast alloy is to comply with AASHTO M 105, Class 30B.

**b. Dimensions.** The finished cast products are to comply with the dimensional requirements in the Contract Documents.

**c. Finish.**

(1) Provide all the cast products in the as-cast and as-machined condition.

(2) Weld repairing of casting flaws will not be permitted without the express written consent of the KDOT.

##### 1612.3 TEST METHODS

Tension testing of specimens representative of the cast products is mandatory. Perform the testing in accordance to AASHTO M 105.

Any additional tests will be according to the agreement procedures of AASHTO M 105 and the associated methods and requirements.

##### 1612.4 PREQUALIFICATION

Not applicable.

##### 1612.5 BASIS OF ACCEPTANCE

Submit for approval to the project Engineer's and MRC a Type A certification (certified mill test report), as specified in **DIVISION 2600**, that governs the analysis of all heats delivered to the project.

The KDOT reserves the right to call for and test specimens from certified lots to verify the certification results. Specimens may be cast test bars from the manufacturer or sections cut from actual castings if test bars are not available, or there is reason to suspect their validity.