

# BLACK BEAUTY® IRON Abrasives

## Product Specification Sheet

CUSTOMER SERVICE

1-888-733-3646

### Grades

**MEDIUM:** For general purpose repair and maintenance blasting for the removal of paint and rust, structural steel, mill scale and aggregate exposure.

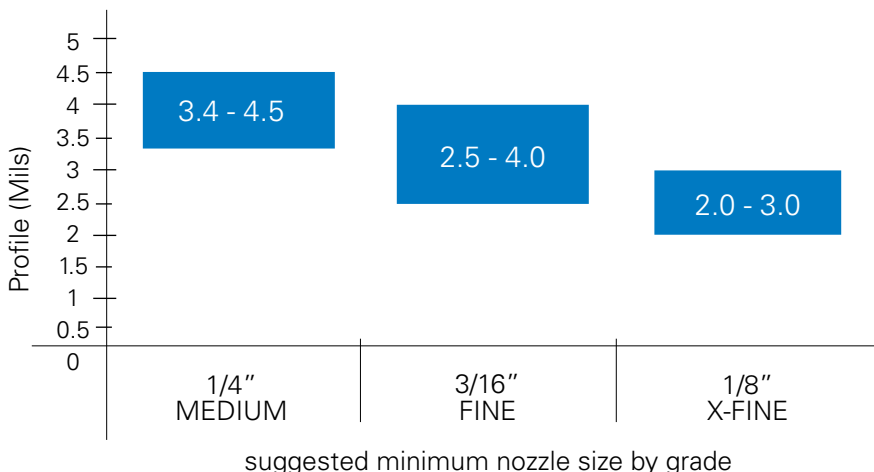
**FINE:** For new construction, light paint and rust removal, and for special maintenance applications requiring reduced profiles; Bridge maintenance, light mill scale, light paint and rust, new structural steel.

**X-FINE:** To clean surfaces and create a smooth finish, brush-off blast or in a high-pressure water blast system.

### Profile Guide

The guide shows profile ranges achieved with different grades of BLACK BEAUTY® IRON abrasives with a controlled environment using a blast cabinet designed by Harsco's technical team. The controlled environment consisted of 90-100 psi at the nozzle, nozzle to the surface distance of 18", a 1/4" orifice venturi nozzle, on new 1/8" grade A36 steel, with a blast angle of 75° to 105°.

Some variance in the profile can be noted by the profile ranges even in a controlled environment. Harsco cannot guarantee identical profile results with BLACK BEAUTY® IRON abrasives in the field where variability exists.



### Product Data

**Low Free Silica**....less than 0.1%

**Particle Shape**...angular, sharp

**Hardness**...7+ on Moh's scale

**Bulk Density**...105-120 lbs per cubic foot

**Specific Gravity**...typically 3.8

**Moisture Content**...less than 0.5%

### Chemical Analysis (Typical)

Silicon Dioxide	30-45%
Iron Oxide	40-60%
Aluminum Oxide	3.0-15%
Calcium Oxide	2.0-10%
Magnesium Oxide	0.0-2.0%
Potassium Oxide	0.0-3.0%
Titanium Oxide	0.0-2.0%
Silicon dioxide, crystalline	<0.1%
Manganese	0.0-0.02
Beryllium	0.0-0.001
Cadmium	0.0-0.001

Specific data may be obtained by contacting Harsco at 1-888-733-3646.

### Features & Benefits

- Less than 0.1% free silica
- Hard angular particles
- Uniform density
- Low friability
- Low dusting