

BLACK BEAUTY® IRON Abrasives

Product Specification Sheet

CUSTOMER SERVICE
1-888-733-3646

Grades

MEDIUM (12/40): For general purpose repair and maintenance blasting for the removal of paint and rust, structural steel, mill scale and aggregate exposure.

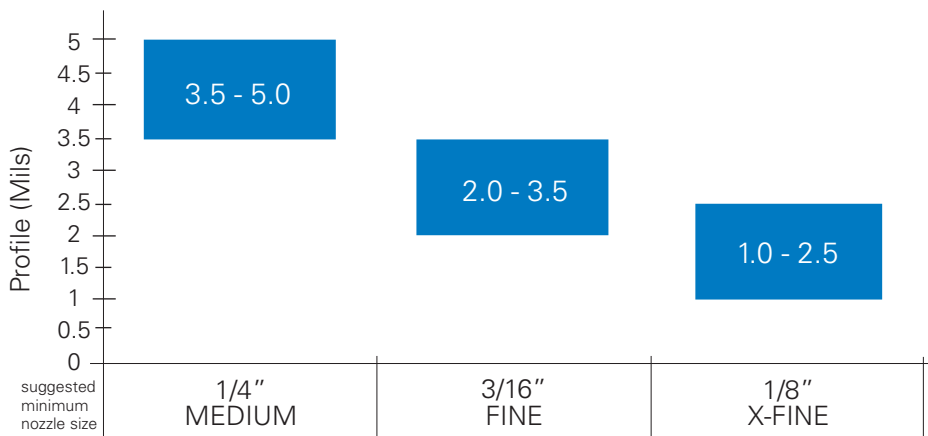
FINE (20/40): For new construction, light paint and rust removal, and for special maintenance applications requiring reduced profiles; Bridge maintenance, light mill scale, light paint and rust, new structural steel.

X-FINE (30/60): 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.



BLACK BEAUTY® IRON

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