

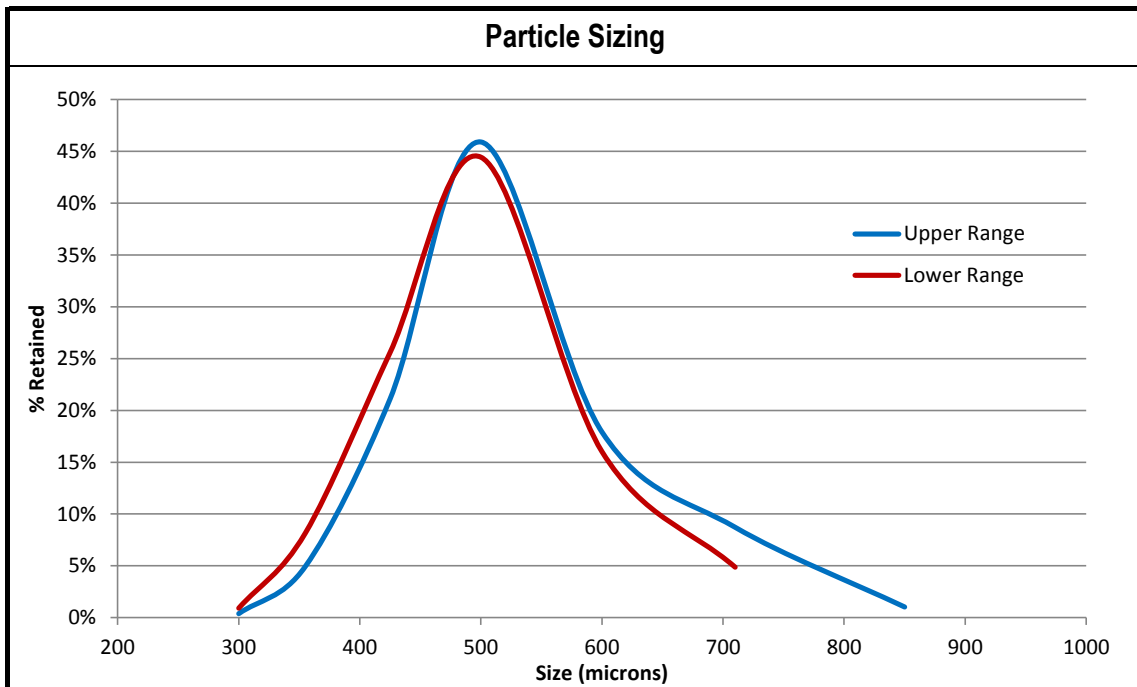
# GARNET 20/40

- Blast Grade -

| Chemical Analysis (Typical) |                                |         |             |                               |             |
|-----------------------------|--------------------------------|---------|-------------|-------------------------------|-------------|
| Element                     | Presenting as                  | Conc.   | Element     | Presenting as                 | Conc.       |
| Alumina                     | Al <sub>2</sub> O <sub>3</sub> | 21%     | Zircon      | ZrO <sub>2</sub>              | 0.012%      |
| Iron                        | Fe <sub>2</sub> O <sub>3</sub> | 35%     | Phosphorous | P <sub>2</sub> O <sub>5</sub> | 0.055%      |
| Silica                      | SiO <sub>2</sub>               | 38%     | Suplhur     | SO <sub>3</sub>               | 0.02%       |
| Magnesium                   | MgO                            | 6.7%    | Copper      | Cu                            | 0.004%      |
| Calcium                     | CaO                            | 1.6%    | Uranium     | U                             | 1.5 ppm     |
| Titanium                    | TiO <sub>2</sub>               | 0.12%   | Thorium     | Th                            | 9.5 ppm     |
| Lead                        | PbO                            | <0.001% | Chloride    | Cl-                           | 10-15 ppm   |
| Manganese                   | MnO                            | 0.95%   |             |                               | (max 25ppm) |

| Physical Properties (Typical) |                   |                |                         |       |               |
|-------------------------------|-------------------|----------------|-------------------------|-------|---------------|
| Specific Gravi                |                   | 4.1            | Susceptibility to Acid  |       | None          |
| Bulk Density                  | kg/m <sup>3</sup> | 2300           | Moisture Absorbtion     |       | Nil           |
| Hardness                      | mohs              | 8              | Magnetic Susceptibility | gauss | 6000 (slight) |
| Fracture                      |                   | Sub Conchoidal | Conductivity            | μS/cm | 95.9          |
| Free Flow                     |                   | 90%            |                         |       |               |

| Mineral Composition (Typical) |        |                     |       |
|-------------------------------|--------|---------------------|-------|
| Garnet (Almandine)            | 97-98% | Free Silica Content | <0.5% |
| Ilmenite                      | 1-2%   | Other               | <1%   |
| Zircon                        | <0.1%  |                     |       |



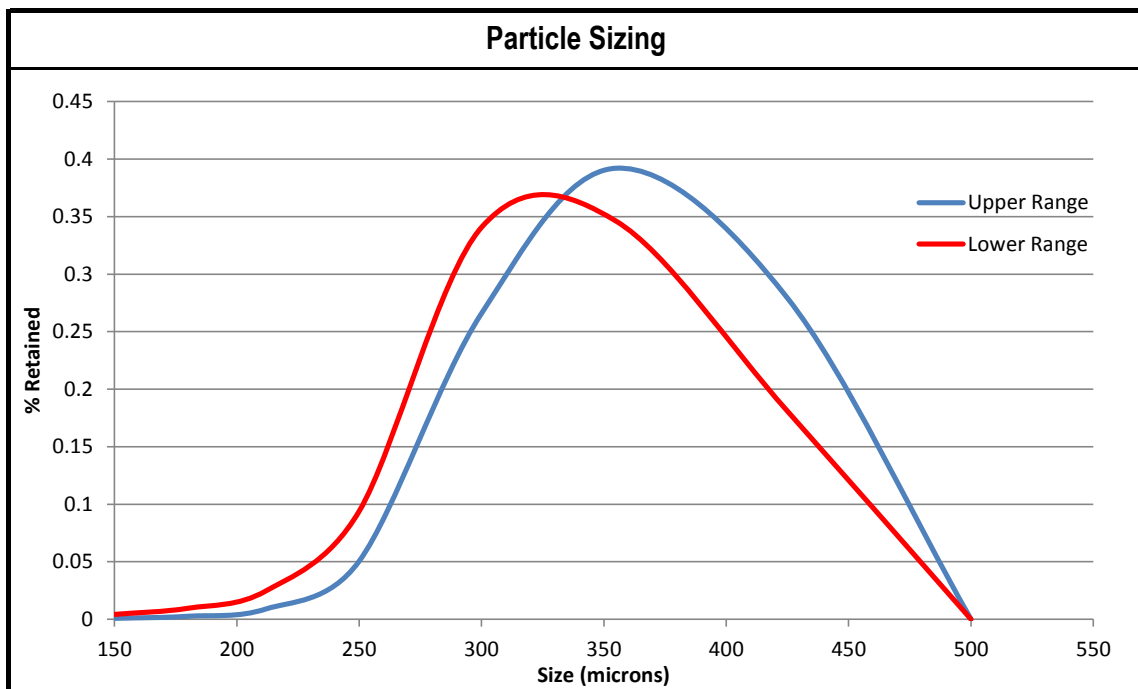
# GARNET 30/60#

- Blast Grade -

| Chemical Analysis (Typical) |                                |         |             |                               |             |
|-----------------------------|--------------------------------|---------|-------------|-------------------------------|-------------|
| Element                     | Presenting as                  | Conc.   | Element     | Presenting as                 | Conc.       |
| Alumina                     | Al <sub>2</sub> O <sub>3</sub> | 21%     | Zircon      | ZrO <sub>2</sub>              | 0.010%      |
| Iron                        | Fe <sub>2</sub> O <sub>3</sub> | 35%     | Phosphorous | P <sub>2</sub> O <sub>5</sub> | 0.052%      |
| Silica                      | SiO <sub>2</sub>               | 38%     | Suplhur     | SO <sub>3</sub>               | 0.02%       |
| Magnesium                   | MgO                            | 6.6%    | Copper      | Cu                            | 0.004%      |
| Calcium                     | CaO                            | 1.8%    | Uranium     | U                             | 1.5 ppm     |
| Titanium                    | TiO <sub>2</sub>               | 0.36%   | Thorium     | Th                            | 8.5 ppm     |
| Lead                        | PbO                            | <0.001% | Chloride    | Cl-                           | 10-15 ppm   |
| Manganese                   | MnO                            | 0.96%   |             |                               | (max 25ppm) |

| Physical Properties (Typical) |                   |                |                         |       |               |
|-------------------------------|-------------------|----------------|-------------------------|-------|---------------|
| Specific Gravi                |                   | 4.1            | Susceptibility to Acid  |       | None          |
| Bulk Density                  | kg/m <sup>3</sup> | 2300           | Moisture Absorbion      |       | Nil           |
| Hardness                      | mohs              | 8              | Magnetic Susceptibility | gauss | 6000 (slight) |
| Fracture                      |                   | Sub Conchoidal | Conductivity            | μS/cm | 95.9          |
| Free Flow                     |                   | 90%            |                         |       |               |

| Mineral Composition (Typical) |        |                     |       |
|-------------------------------|--------|---------------------|-------|
| Garnet (Almandine)            | 97-98% | Free Silica Content | <0.5% |
| Ilmenite                      | 1-2%   | Other               | <1%   |
| Zircon                        | <0.1%  |                     |       |



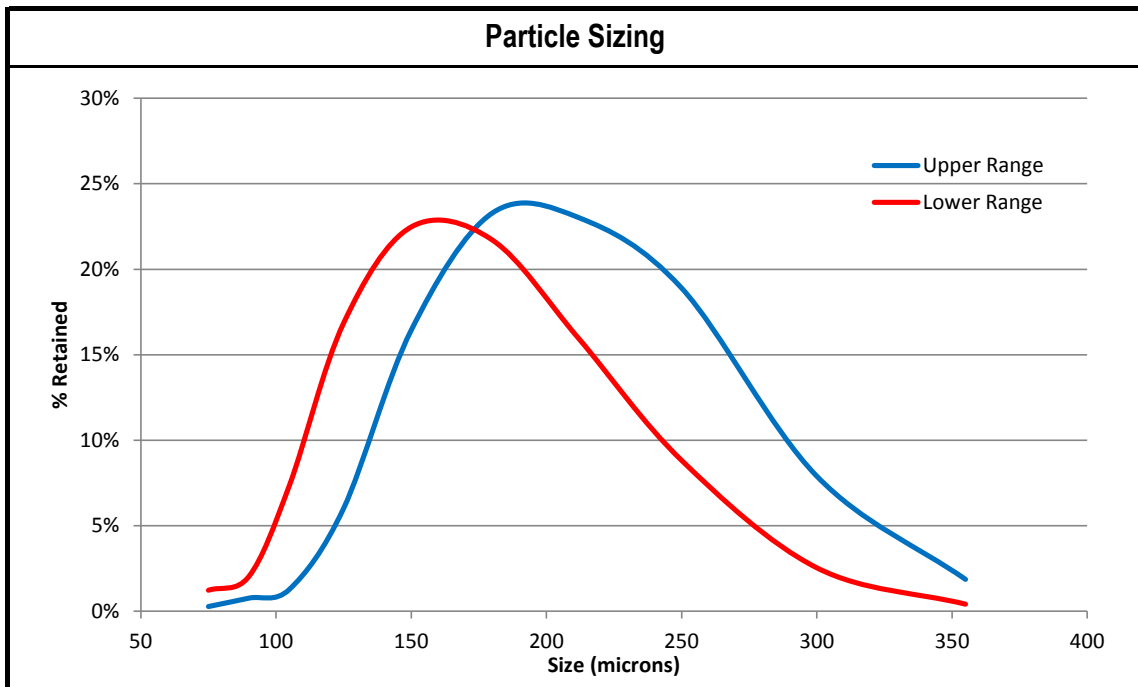
# GARNET 80#

- Blast Grade -

| Chemical Analysis (Typical) |                                |        |             |                               |             |
|-----------------------------|--------------------------------|--------|-------------|-------------------------------|-------------|
| Element                     | Presenting as                  | Conc.  | Element     | Presenting as                 | Conc.       |
| Alumina                     | Al <sub>2</sub> O <sub>3</sub> | 21%    | Zircon      | ZrO <sub>2</sub>              | 0.010%      |
| Iron                        | Fe <sub>2</sub> O <sub>3</sub> | 35%    | Phosphorous | P <sub>2</sub> O <sub>5</sub> | 0.045%      |
| Silica                      | SiO <sub>2</sub>               | 37%    | Suplhur     | SO <sub>3</sub>               | <0.01%      |
| Magnesium                   | MgO                            | 6.4%   | Copper      | Cu                            | 0.005%      |
| Calcium                     | CaO                            | 2.0%   | Uranium     | U                             | 1.0 ppm     |
| Titanium                    | TiO <sub>2</sub>               | 1.41%  | Thorium     | Th                            | 6.5 ppm     |
| Lead                        | PbO                            | 0.002% | Chloride    | Cl-                           | 10-15 ppm   |
| Manganese                   | MnO                            | 0.98%  |             |                               | (max 25ppm) |

| Physical Properties (Typical) |                   |                |                         |       |               |
|-------------------------------|-------------------|----------------|-------------------------|-------|---------------|
| Specific Gravi                |                   | 4.1            | Susceptibility to Acid  |       | None          |
| Bulk Density                  | kg/m <sup>3</sup> | 2300           | Moisture Absorbtion     |       | Nil           |
| Hardness                      | mohs              | 8              | Magnetic Susceptibility | gauss | 6000 (slight) |
| Fracture                      |                   | Sub Conchoidal | Conductivity            | μS/cm | 95.9          |
| Free Flow                     |                   | 90%            |                         |       |               |

| Mineral Composition (Typical) |        |                     |       |
|-------------------------------|--------|---------------------|-------|
| Garnet (Almandine)            | 97-98% | Free Silica Content | <0.5% |
| Ilmenite                      | 1-2%   | Other               | <1%   |
| Zircon                        | <0.1%  |                     |       |



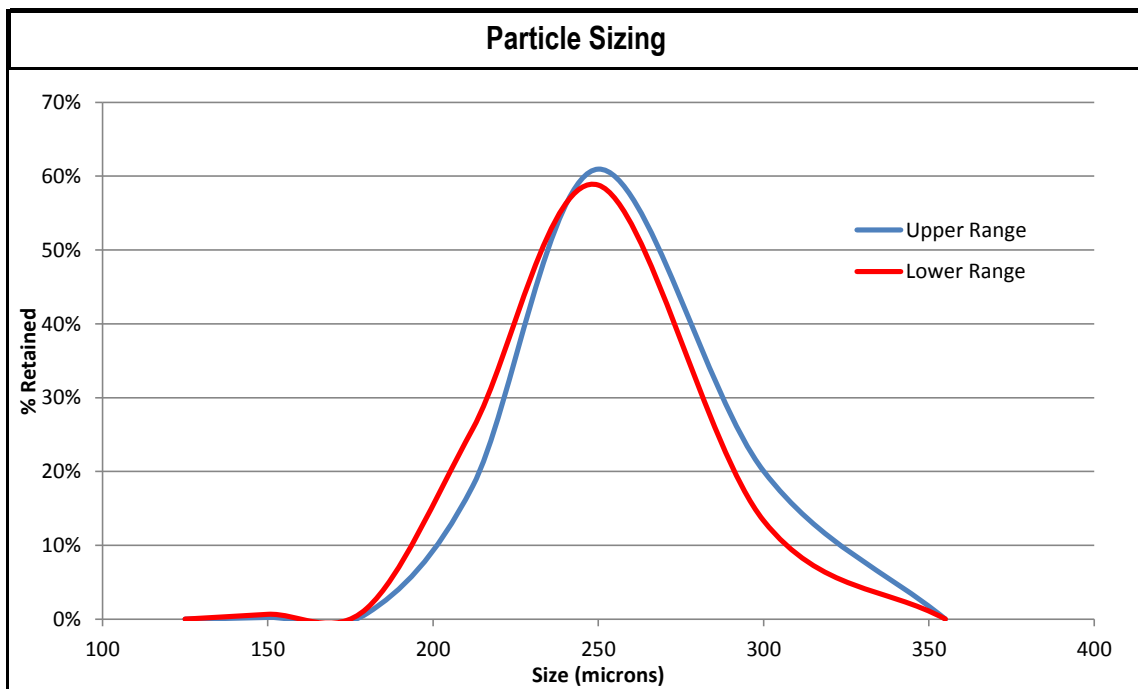
# GARNET 80#

- Water Jet -

| Chemical Analysis (Typical) |                                |        |             |                               |             |
|-----------------------------|--------------------------------|--------|-------------|-------------------------------|-------------|
| Element                     | Presenting as                  | Conc.  | Element     | Presenting as                 | Conc.       |
| Alumina                     | Al <sub>2</sub> O <sub>3</sub> | 21%    | Zircon      | ZrO <sub>2</sub>              | 0.010%      |
| Iron                        | Fe <sub>2</sub> O <sub>3</sub> | 35%    | Phosphorous | P <sub>2</sub> O <sub>5</sub> | 0.045%      |
| Silica                      | SiO <sub>2</sub>               | 37%    | Suplhur     | SO <sub>3</sub>               | <0.01%      |
| Magnesium                   | MgO                            | 6.4%   | Copper      | Cu                            | 0.005%      |
| Calcium                     | CaO                            | 2.0%   | Uranium     | U                             | 1.0 ppm     |
| Titanium                    | TiO <sub>2</sub>               | 1.41%  | Thorium     | Th                            | 6.5 ppm     |
| Lead                        | PbO                            | 0.002% | Chloride    | Cl-                           | 10-15 ppm   |
| Manganese                   | MnO                            | 0.98%  |             |                               | (max 25ppm) |

| Physical Properties (Typical) |                   |                |                         |       |               |
|-------------------------------|-------------------|----------------|-------------------------|-------|---------------|
| Specific Gravi                |                   | 4.1            | Susceptibility to Acid  |       | None          |
| Bulk Density                  | kg/m <sup>3</sup> | 2300           | Moisture Absorbtion     |       | Nil           |
| Hardness                      | mohs              | 8              | Magnetic Susceptibility | gauss | 6000 (slight) |
| Fracture                      |                   | Sub Conchoidal | Conductivity            | μS/cm | 95.9          |
| Free Flow                     |                   | 90%            |                         |       |               |

| Mineral Composition (Typical) |        |                     |       |
|-------------------------------|--------|---------------------|-------|
| Garnet (Almandine)            | 97-98% | Free Silica Content | <0.5% |
| Ilmenite                      | 1-2%   | Other               | <1%   |
| Zircon                        | <0.1%  |                     |       |



# GARNET 120#

- Water Jet -

| Chemical Analysis (Typical) |                                |        |             |                               |             |
|-----------------------------|--------------------------------|--------|-------------|-------------------------------|-------------|
| Element                     | Presenting as                  | Conc.  | Element     | Presenting as                 | Conc.       |
| Alumina                     | Al <sub>2</sub> O <sub>3</sub> | 20%    | Zircon      | ZrO <sub>2</sub>              | 0.010%      |
| Iron                        | Fe <sub>2</sub> O <sub>3</sub> | 35%    | Phosphorous | P <sub>2</sub> O <sub>5</sub> | 0.043%      |
| Silica                      | SiO <sub>2</sub>               | 36%    | Suplhur     | SO <sub>3</sub>               | <0.01%      |
| Magnesium                   | MgO                            | 6.2%   | Copper      | Cu                            | 0.005%      |
| Calcium                     | CaO                            | 2.0%   | Uranium     | U                             | 1.0 ppm     |
| Titanium                    | TiO <sub>2</sub>               | 3.22%  | Thorium     | Th                            | 8 ppm       |
| Lead                        | PbO                            | 0.002% | Chloride    | Cl-                           | 10-15 ppm   |
| Manganese                   | MnO                            | 1.02%  |             |                               | (max 25ppm) |

| Physical Properties (Typical) |                   |      |                         |       |               |
|-------------------------------|-------------------|------|-------------------------|-------|---------------|
| Specific Gravi                |                   | 4.1  | Susceptibility to Acid  |       | None          |
| Bulk Density                  | kg/m <sup>3</sup> | 2300 | Moisture Absorbtion     |       | Nil           |
| Hardness                      | mohs              | 8    | Magnetic Susceptibility | gauss | 6000 (slight) |
| Fracture                      | Sub Conchoidal    |      | Conductivity            | μS/cm | 95.9          |
| Free Flow                     |                   | 90%  |                         |       |               |

| Mineral Composition (Typical) |        |                     |       |
|-------------------------------|--------|---------------------|-------|
| Garnet (Almandine)            | 97-98% | Free Silica Content | <0.5% |
| Ilmenite                      | 1-2%   | Other               | <1%   |
| Zircon                        | <0.1%  |                     |       |

