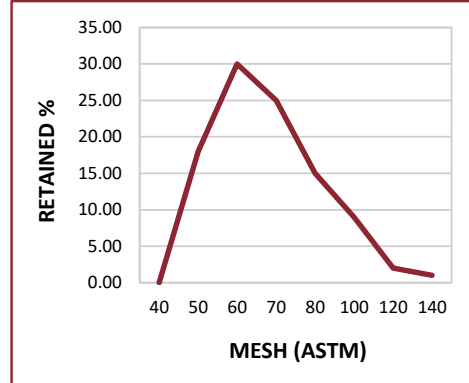




**GRADE : # 80**

**SIEVE ANALYSIS**

| Mesh | IN     | MM    | Retained % |         |
|------|--------|-------|------------|---------|
|      |        |       | Spec       | Typical |
| 40   | 0.0165 | 0.425 | 0          | 0.00    |
| 50   | 0.0117 | 0.300 | 10 - 25    | 18.00   |
| 60   | 0.0098 | 0.250 | 20 - 40    | 30.00   |
| 70   | 0.0083 | 0.212 | 10 - 30    | 25.00   |
| 80   | 0.0070 | 0.180 | 8 - 20     | 15.00   |
| 100  | 0.0059 | 0.150 | 5 - 15     | 9.00    |
| 120  | 0.0049 | 0.125 | 0 - 2      | 2.00    |
| 140  | 0.0041 | 0.105 | 0 - 1      | 1.00    |
| PAN  |        |       | 0-1        | 0.00    |



**MINERAL COMPOSITION**

| Minerals          | Specification (%) | Typical (%) |
|-------------------|-------------------|-------------|
| Garnet            | Min 97.00         | 98.5        |
| Calcium Carbonate | Max 1.0           | 0.5         |
| Ilmenite          | Max 1.0           | 0.5         |
| Other             | Max 1.00          | 0.5         |

**PHYSICAL CHARACTERISTICS**

| Minerals         | Specification               | Typical                |
|------------------|-----------------------------|------------------------|
| Specific Gravity | 3.9 - 4.1                   | 4.01                   |
| Conductivity     | Max 250 uS/cm               | 130.50 uS/cm           |
| Chloride         | Max 25 Ppm                  | 8.00 Ppm               |
| Hardness         | Min 7 Moh's Scale           | 7.87 Moh's Scale       |
| Bulk Density     | 2.0 - 2.3 g/cm <sup>3</sup> | 2.10 g/cm <sup>3</sup> |
| Suspended Solids | Max 1500 Mg/l               | 1000 Mg/l              |

**CHEMICAL COMPOSITION**

| Elements                       | Specification (%) | Typical (%) |
|--------------------------------|-------------------|-------------|
| SiO <sub>2</sub>               | 34.0 - 43.0       | 34.04       |
| Al <sub>2</sub> O <sub>3</sub> | 18.0 - 28.0       | 20.28       |
| FeO                            | 21.0 - 36.5       | 29.72       |
| Fe <sub>2</sub> O <sub>3</sub> | 1.0 - 6.0         | 5.02        |
| MgO                            | 5.0 - 10.0        | 7.16        |
| CaO                            | 1.0 - 5.0         | 2.06        |
| TiO <sub>2</sub>               | 1.0 - 5.0         | 1.06        |
| MnO                            | 0.0 - 1.0         | 0.65        |
| Others                         | 0.0 - 1.0         | 0.01        |