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ASTM standard qualities of mica (Classification D 351)

Quality classification of muscovite mica based on visual properties

| | | | | Air inc | lusions | S | | | | | | | | | Wav | iness | | Hard | Iness | | | | | | | | | | | |
|-------------------------------|-------|-----------------------------------|-------------|---------|---------|-------|---------------|------------------------------------|---------------------------|-------------------------|-----------------------------------|----------------------------------|-------------|-------------|--------|--------|-------|------|-------|------------------|---------|--------|--------|-------|--------|-----------------|-------|--------------|---------------|------------|
| | | Crystallographic discoloration | Very slight | Slight | Medium | Неаvу | Cloudy stains | Light black and red dots (mineral) | Black stains (Mineral) | Red stains (mineral) | Black and red stains (mineral) | Green stains (vegetable type) | Clay stains | Nearly flat | Slight | Medium | Неаvу | Hard | Soft | Stones and holes | Buckles | Reeves | Ridges | Tears | Cracks | Hairline cracks | Wedge | Tangle sheet | Herring bones | Sand blast |
| Clear | V-1 | X | X | X | X | X | X | X | Χ | X | X | X | * | * | X | X | X | * | X | X | X | X | Χ | X | X | Χ | Χ | X | Χ | X |
| Clear and Slightly Stained | V-2 | *D | * | Х | Х | Х | Х | Х | Х | Х | Х | Х | * | * | Х | X | Х | * | Х | Х | Х | Х | Х | Х | Х | Х | Χ | Х | Х | X |
| Fair Stained | V-3 | *D | * | * | Х | Х | Х | X | Χ | Х | Х | Х | * | * | * | ×X | Х | * | X | X | Х | Х | Χ | X | X | Χ | Χ | Χ | Χ | X |
| Good Stained | V-4 | *D | * | * | *E | X | Χ | Х | Χ | Х | Х | Х | * | * | * | * | Х | * | Х | Х | Х | Х | Χ | Χ | Х | Χ | Χ | Χ | Χ | X |
| Stained A Quality | V-5 | * | * | * | *F | Х | Х | Х | Х | Х | Х | *D | * | * | * | * | Х | * | Х | Х | Х | Х | Χ | Х | Х | Χ | Χ | Χ | Χ | X |
| Stained B Quality | V-6 | * | * | * | * | * | Х | *D | Х | Х | Х | *G | *D | * | * | * | * | * | Х | Х | Х | Х | Х | Х | Х | Χ | Х | Х | Χ | X |
| Heavy Stained | V-7 | * | * | * | * | * | *G | *D | Х | Х | Х | *G | *G | * | * | * | * | * | S | Х | S | Х | S | Χ | Χ | Χ | Χ | Χ | Χ | S |
| Densely Stained | V-7A | * | * | * | * | * | *H | *H | *G | *G | Х | * | * | * | * | * | * | * | * | Х | *G | Х | *G | Х | Х | Χ | Χ | Х | * | * |
| Black Dotted | V-8 | * | * | * | * | * | * | * | Χ | X | X | * | X | * | * | * | Х | * | Х | Х | Χ | Х | Χ | Х | Χ | Х | Χ | X | Χ | X |
| Black Spotted | V-9 | * | * | * | * | * | * | * | *D | X | X | * | Х | * | * | * | Х | * | Х | Χ | Χ | Х | Χ | X | X | Χ | Х | X | Χ | * |
| Black Stained | V-10 | * | * | * | * | * | * | * | *G | *D | X | * | *D | * | * | * | Х | * | Х | Х | Χ | Х | Х | Х | Χ | Χ | Χ | Χ | Χ | * |
| Densely Black and Red Stained | V-10A | * | * | * | * | * | * | * | *H | * | * | * | *D | * | * | * | * | * | S | Х | Х | Х | Χ | Х | Χ | Χ | Χ | Χ | Χ | * |

SYMBOLS

| Permissible | * |
|------------------------------------|------|
| Not permissible | X |
| Permissible only if specified | S |
| Few and tiny in 1/4 od usable area | Α |
| Few in one half usable area | В |
| Very dense | С |
| Slight | D |
| Few in two-thirds usable area | Е |
| Uniformly distributed | F |
| Medium | G |
| Hanni | - 11 |

- 1 Clear Hard, of uniform color, nearly flat, free of all stains, foreign inclusion, cracks, and other similar defects.
- V-2 Clear and Slightly Stained Hard, of uniform color, nearly flat and may contain slight crystallographic discoloration, and very slight air inclusions and not more than one fourth of the usable area.
 - Fair Stained Hard, of uniform color, may contain slight waves, slight crystallographic discoloration, and sligh air inclusions and not more than one-half of the usable area.
- V-4 Good Stained Hard, of uniform color, may contain medium waves slight crystallographic discoloration, and medium air inclusion in not more than two-third of the usable area.
- V-5 Stained A Quality Hard, may contain medium air inclusions, uniformly distributed in the usable area; slight green vegetable stains, medium waviness, and heavy waves if specified.
- V-6 Stained B Quality Hard, may contain heavy air inclusions and heavy waves, medium green vegetable stains, slight black and red dots (mineral) and clay stains.
- V-7 **Heavy Stained** Hard, and may contain heavy air inclusions and waves, slight light black and red dots (mineral), medium cloudy stains, clay stains and green stains (vegetable). Soft, buckles, ridges, and sand blast acceptable if specified.
- V-7A **Densely Stained** Hard and soft. May contain heavy waves and air inclusions, cloudy stains. High black and red dots (mineral). Medium black and red stained (mineral), buckles, and ridges. Also, green stain (vegetable type), clay stains, herringbones and sand blast.
- V-8 **Black Dotted** Hard, may contain medium waves, heavy air inclusions, cloudy stains, light black and red dots (mineral), and green stains (vegetable).
- V-9 Black Spotted Hard, may contain medium waves, heavy air inclusions, cloudy stains, light black and red dots (mineral), and green stains (vegetable), slight black stains (mineral), and sand blast.
- V-10 **Black Stained** Hard, may contain medium waves, heavy air inclusions, cloudy stains, light black and red dots (mineral), green stains (vegetable type), and sand blast, medium black stains (mineral), slight red stains (mineral), and clay stains.
- V-10A **Densely Black and Red Stained** Hard, may contain heavy waves, air inclusion, cloudy stains, light black and red dots (mineral), red stains (mineral), black and red stains (mineral), green stains (vegetable type), and sand blast, very dense black and red stains (mineral), and slight clay stains. Soft if specified.