

## Separation Chart for Look-Alike Gems

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Based on Magnetic Response

### Garnet

Vs

### Most Other Natural Transparent Gemstones

*Picks Up (diagnostic)*

*Inert to Drags*

A Pick Up response by any transparent gemstone of average size is generally a positive identification for Garnet. No other natural transparent *primary* gemstone will give this response. Grossular Garnets don't Pick Up (Hessonite, Tsavorite, Mali, and lesser known varieties). Demantoid is the only green Garnet that picks up.

### Rhodolite Garnet

Vs

### Purplish Red Sapphire

*Picks Up*

*Inert to Moderate*

### Rhodolite Garnet

Vs

### Amethyst

*Picks Up*

*Inert*

### Rhodolite Garnet

Vs

### Rubellite Tourmaline

*Picks Up*

*Inert to Strong*

### Rhodolite Garnet

Vs

### Purplish Red Spinel

*Picks Up*

*Weak to Moderate*

### Red Garnet

Vs

### Red Spinel

*Picks Up*

*Weak to Moderate*

### Red Garnet

Vs

### Red Zircon

*Picks Up*

*Inert*

### Orange Spessartine Garnet

Vs

### YAG/CZ

*Picks Up*

*Inert to Weak*

### Orange Spessartine Garnet

Vs

### Hessonite Garnet

*Picks Up*

*Moderate to Strong*

### Demantoid Garnet

Vs

### All Other Transparent Green Gemstones

*Picks Up (diagnostic)*

*Inert to Strong*

### Hessonite Garnet

Vs

### Orange Dravite Tourmaline

*Moderate to Strong*

*Inert*

### Brown Mali Garnet

Vs

### Brown Sphe

*Drags*

*Strong*

Almandine Garnet

Vs

Purple Spinel

*Picks Up*

*Weak to Moderate*

Black Garnet (Melanite)

Vs

Black Diamond (Carbonado)

*Picks Up*

*Inert*

Spinel (except pale stones)

Vs

Synthetic Spinel

*Weak to Moderate*

*Inert (except some green gems)*

Aquamarine

Vs

Blue Topaz

*Weak to Moderate*

*Inert*

Blue Paraiba Tourmaline

Vs

Apatite/Blue Zircon

*Strong*

*Inert*

Indicolite Tourmaline

Vs

All Other Blue Gemstones of Any Transparency

*Drags (diagnostic)*

*Inert to Moderate*

Iolite

Vs

Tanzanite (Zoisite)

*Moderate to Strong*

*Inert*

Purple Sapphire

Vs

Amethyst

*Weak to Moderate*

*Inert*

Yellow Feldspar

Vs

Yellow Quartz (Citrine)

*Weak to Moderate*

*Inert*

Peridot

Vs

Idocrase

*Drags*

*Strong*

Green Tourmaline

Vs

Chrome Tourmaline

*Strong to Drags*

*Inert*

Chrome Diopside

Vs

Chrome Tourmaline

*Weak to Strong*

*Inert*

Jadeite/Nephrite (green or black) Vs Dyed Chalcedony or Synthetics

*Weak to Strong*

*Inert*

Turquoise

Vs

Polymers, Plastics or Dyed Howlite

*Weak to Moderate*

*Inert*

Sphene

Vs

Sphalerite

*Weak to Strong*

*Inert*

Orange Sapphire

Vs

Orange Mexican Fire Opal

*Weak to Moderate*

*Inert*

Alexandrite

Vs

Synthetic Alexandrite

*Weak*

*Inert*

Tanzanite

Vs

Violet YAG

*Inert*

*Weak*

Glass/Garnet Doublet

Vs

Unassembled Gems

*Inert Glass side /Strong Garnet side*

*Uniform magnetic response*

Diamond

Vs

Imitation & Synthetic Diamond

*Inert*

*Any magnetic response eliminates natural Diamond*

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