

迪思科用語辭典 <精密加工工具篇>

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Sample

結合劑末端

jié hé jì mò duān

類別：切削刀片

指相對於刀片旋轉方向，研磨顆粒反方向的結合劑湧起的狀態。特別是在刀片切削狀況良好時，經常出現這種狀態。

Diagram illustrating the relationship between abrasive grains, bonding agent, and adhesive tip at the end of a cutting tool. It shows a cross-section of the tool tip with labels for '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '結合劑末端' (adhesive tip). An arrow indicates the '旋轉方向' (rotation direction) of the tool.

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填充劑／Filler

tián chōng jì /filler

類別：鑽石加工相關

結合劑中添加的填充劑，根據添加的填充劑不同可改變結合劑的特性，可以促進自銳化及導保鋒性。

Diagram illustrating a diamond tool with a porous structure containing fillers. The diagram shows a cross-section of the tool with labels for '結合劑' (bonding agent) and '研磨顆粒' (abrasive grains). A legend indicates the components: '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores).

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超級研磨顆粒

chāo jí yán mó kē lì

類別：鑽石加工相關

相對於把 GC 及 WA 等稱為普通研磨顆粒，這裡指的是鑽石及 cBN。

Diagram comparing standard and super-abrasives in a diamond tool structure. It shows a cross-section of the tool with labels for '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores). A legend indicates the components: '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), '超級研磨顆粒 (鑽石, cBN)' (super-abrasive (diamond, cBN)), and '一般研磨顆粒 (GC, WA)' (standard abrasive (GC, WA)).

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普通研磨顆粒

pǔ tōng yán mó kē lì

類別：鑽石加工相關

相對於把鑽石及 cBN 等稱為超級研磨顆粒，這裡指的是 GC 及 WA。比起超級研磨顆粒和研磨顆粒本身的破碎性高，做為研磨顆粒的使用壽命相對比較短。

Diagram illustrating a standard abrasive structure with pores and grains. The diagram shows a cross-section of the tool with labels for '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores). A legend indicates the components: '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores). The structure is labeled '普通研磨顆粒 (GC, WA)' (standard abrasive (GC, WA)).

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cBN

cBN

類別：鑽石加工相關

指的是立方氮化硼（cubic boron nitride）。具有僅次於鑽石的強度、因為比鑽石耐熱，會用來加工金屬類的材料。

Diagram illustrating a cBN abrasive structure with pores and grains. The diagram shows a cross-section of the tool with labels for '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores). A legend indicates the components: '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores). The structure is labeled '超級研磨顆粒 (鑽石, cBN)' (super-abrasive (diamond, cBN)) and '普通研磨顆粒 (GC, WA)' (standard abrasive (GC, WA)).

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GC

GC

類別：鑽石加工相關

綠碳化矽（green silicon carbide）。在 DISCO 主要作為磨刀盤的材料、用於刀片及輪盤的真圓度調整及進刀。

Diagram illustrating a GC abrasive structure with pores and grains. The diagram shows a cross-section of the tool with labels for '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores). A legend indicates the components: '研磨顆粒' (abrasive grains), '結合劑' (bonding agent), and '氣孔' (pores). The structure is labeled '超級研磨顆粒 (鑽石, cBN)' (super-abrasive (diamond, cBN)) and '普通研磨顆粒 (GC, WA)' (standard abrasive (GC, WA)).

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