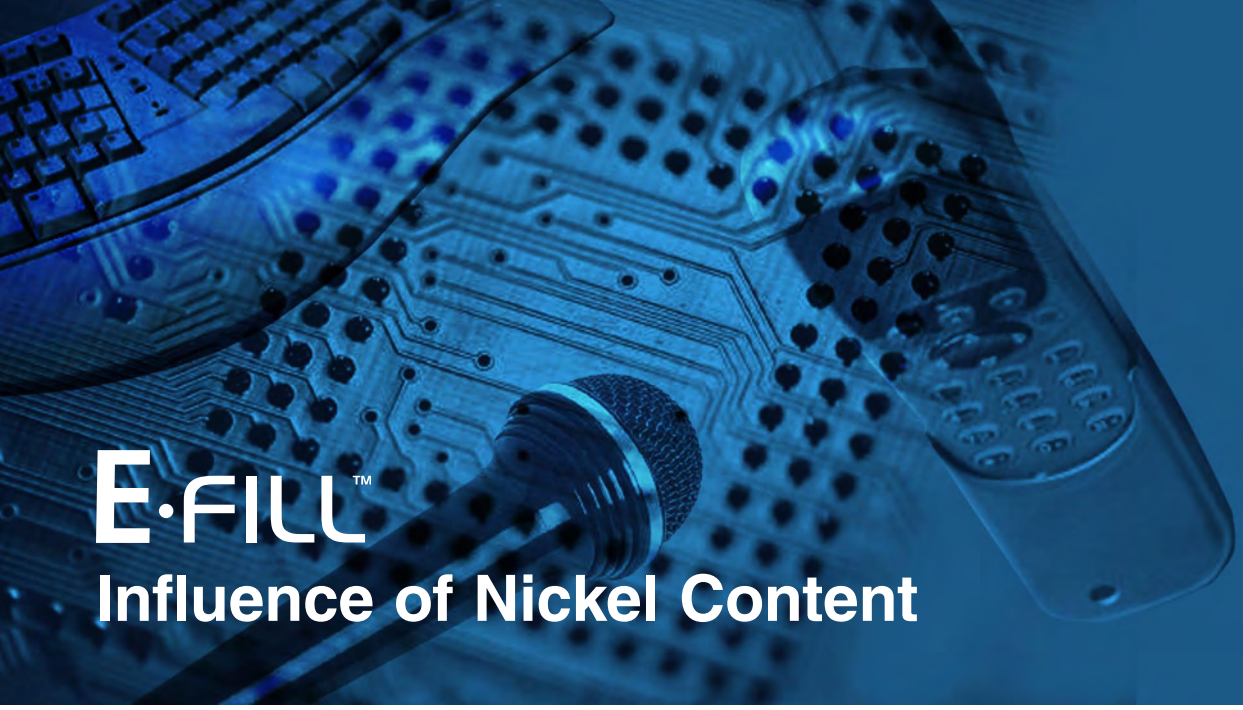

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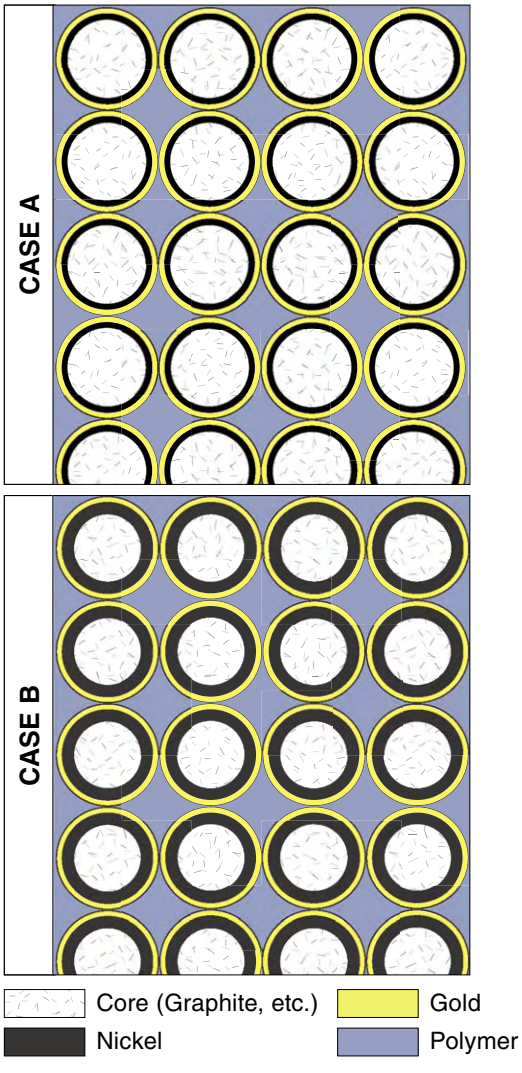
Influence of Nickel Content



Conclusions:

1) The total gold content per unit volume of conductive polymer is the same in both cases.

2) Filler weight % loading is higher in Case B compared to Case A.

3) Filler volume % loading in Case A is the same as in Case B.

4) The conductive polymer density in Case A is lower compared to Case B.

5) Filler gold content by weight % in Case A is higher compared to Case B.

6) The number of contacts among particles per unit volume is the same in both cases because the particle size is identical in both cases.

Note: Core density is less than nickel density.

Sulzer Metco (Canada) Inc.
Tel: +1 780 992 5280 • Fax: +1 780 992 5275 • Toll Free (North America): +1 800 661 4139
Email: efill@sulzer.com • Internet: www.conductivefillers.com