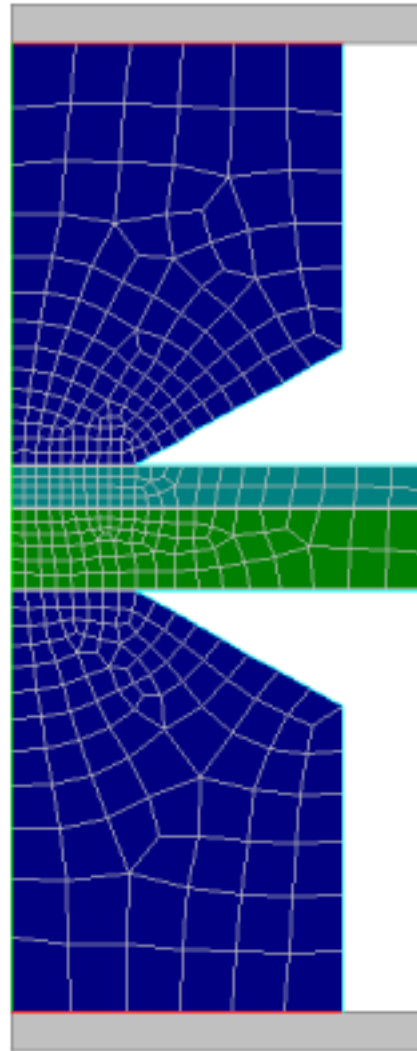


# SORPAS

Simulation Of Resistance Projection  
And Spot welding processes



Elements: 472 Nodes: 528

# Parametrar

Material, plåttjocklek

Ytbeläggning

Ytrenhet

Elektroder

Svetsdata (ström, tid, kraft)

Simuleringsparametrar (mesh, tidssteg)

# Fysikaliska egenskaper som funktion av temperaturen

Termisk ledningsförmåga

Värmekapacitet

Utvidgningskoefficient

Resistivitet

Flytspänning

(densitet, E-modul, Poissons tal)

# Databaser

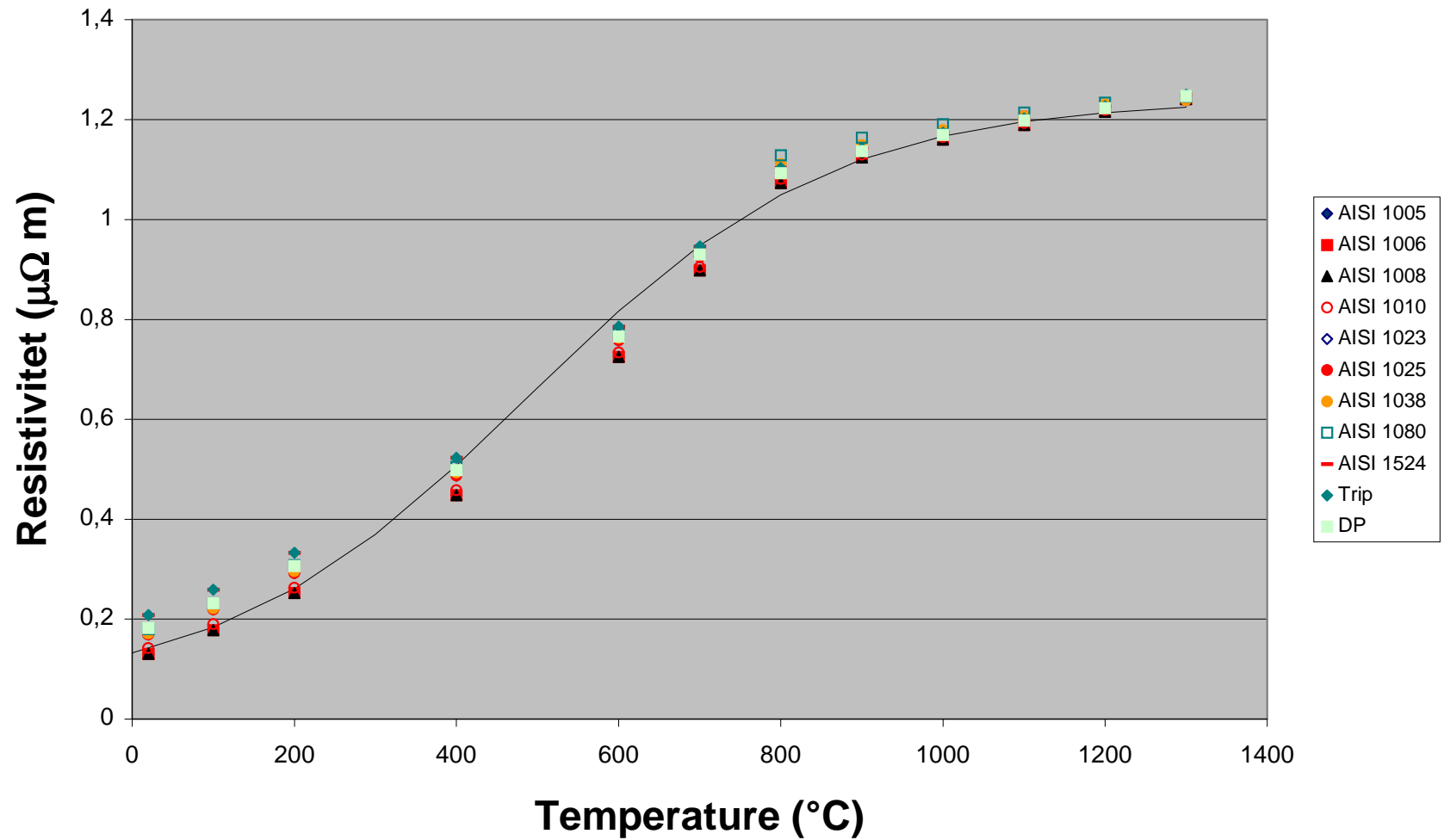
Material (rena metaller 6 st, olegerade/låglegerade stål 29 st, rostfria stål 47 st, kopparlegeringar 35 st, Al-legeringar 67 st,)

Ytbeläggningar 3 st

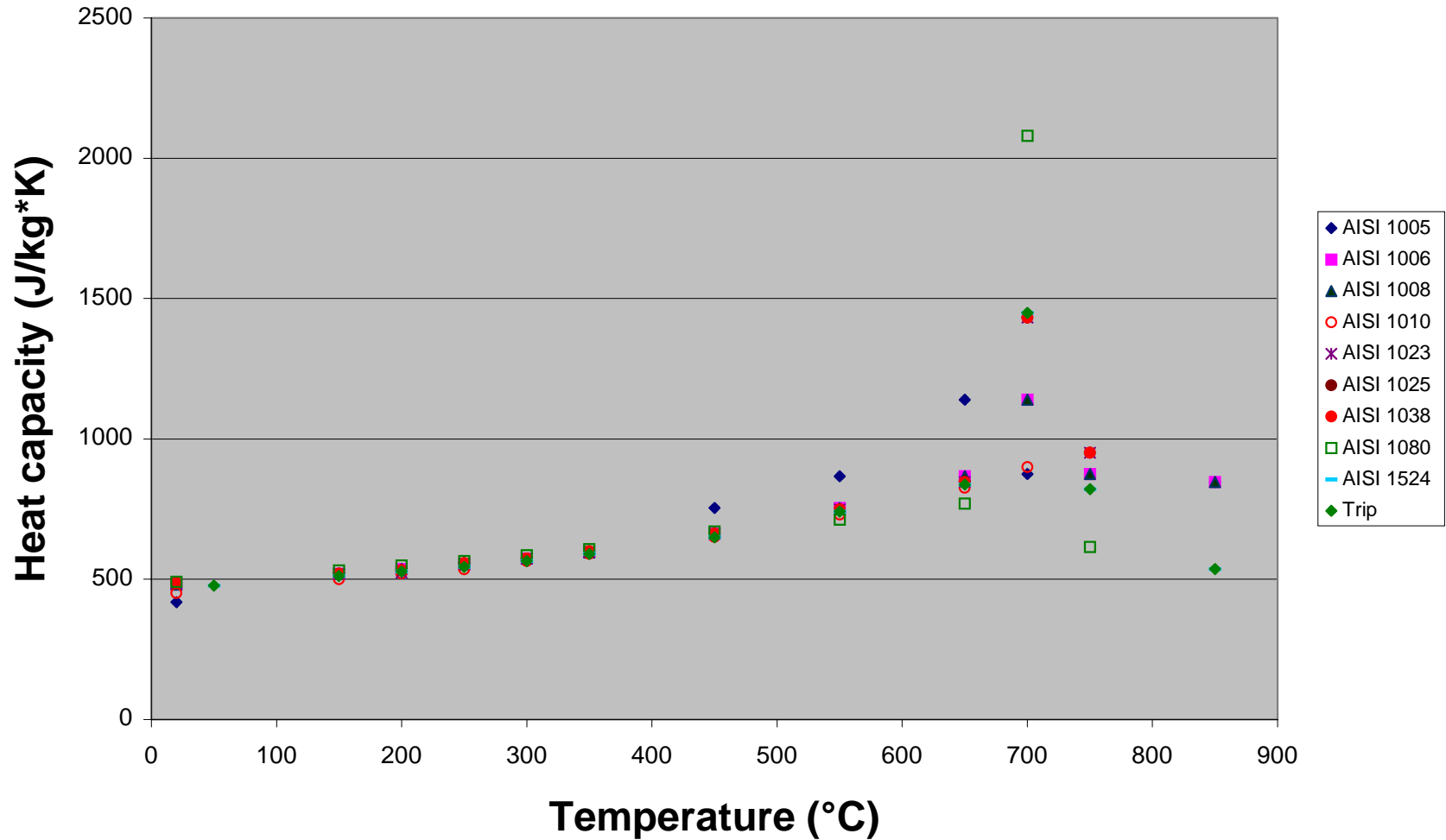
Mellanytor 36 st

Elektroder 17 st

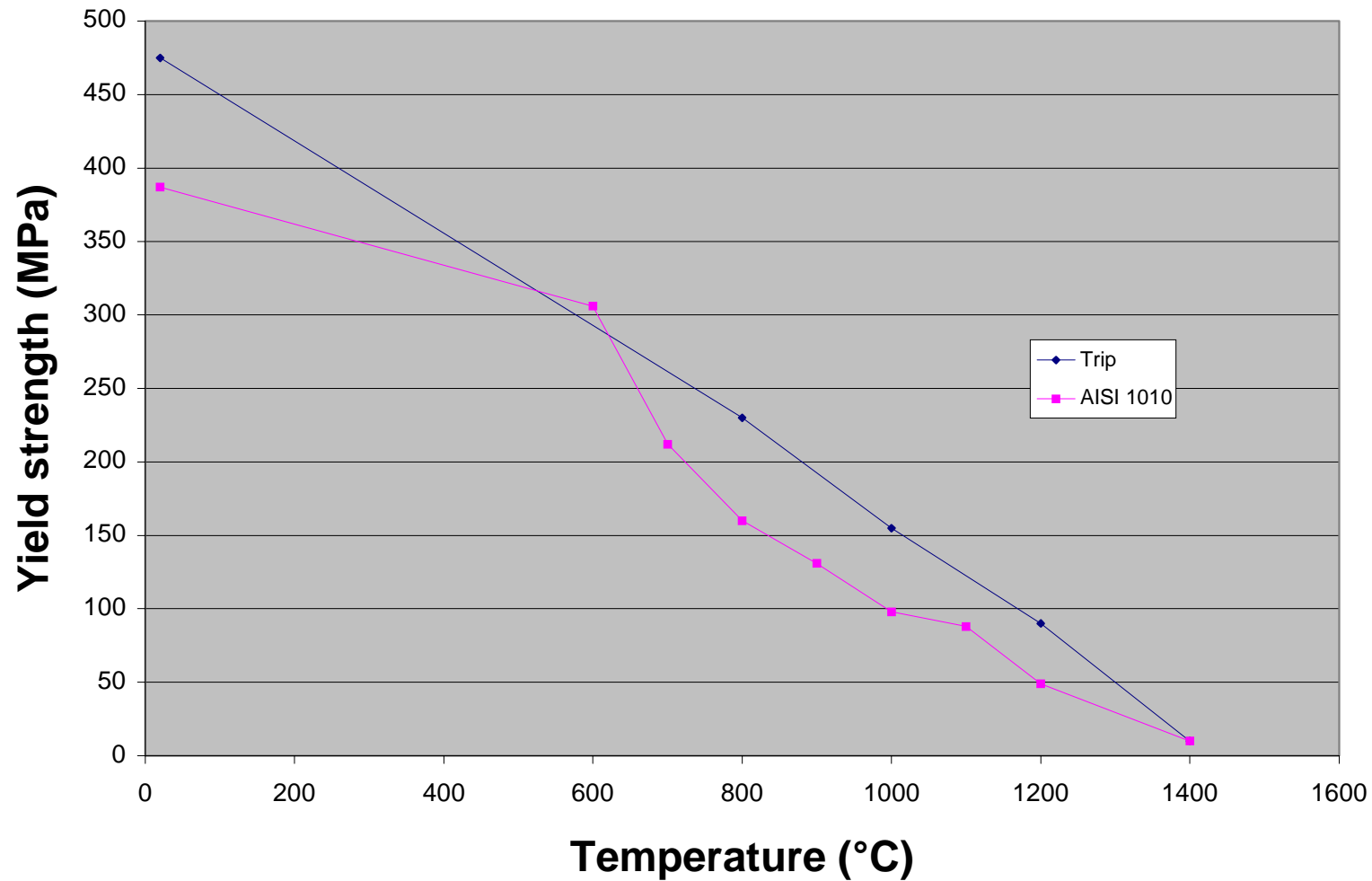
# Resistivitet



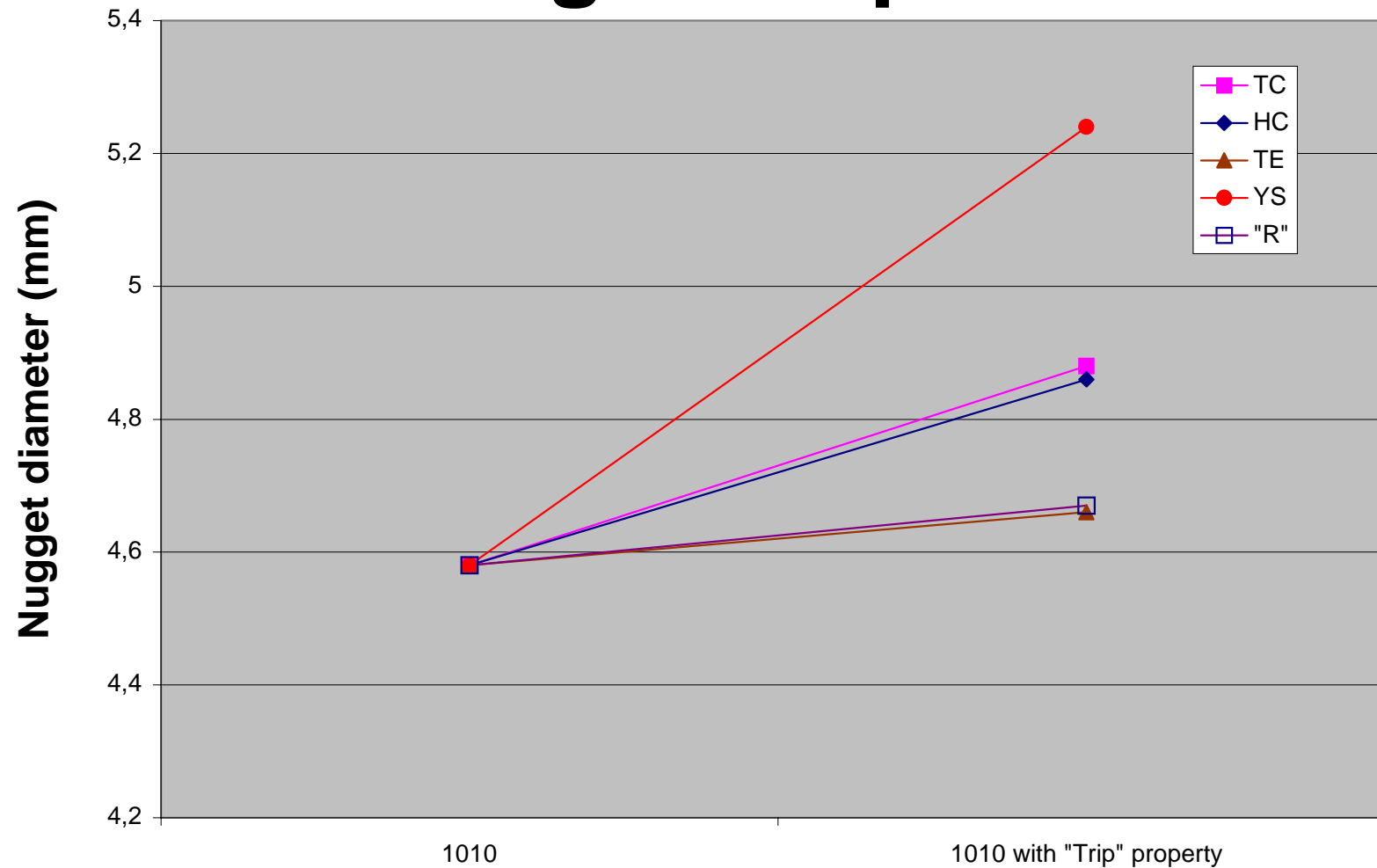
# Värmekapacitet



# Sträckgräns



# Inverkan av fysikaliska egenskaper



# Undersökta material (data från SSAB)

Docol 600DP 1 mm

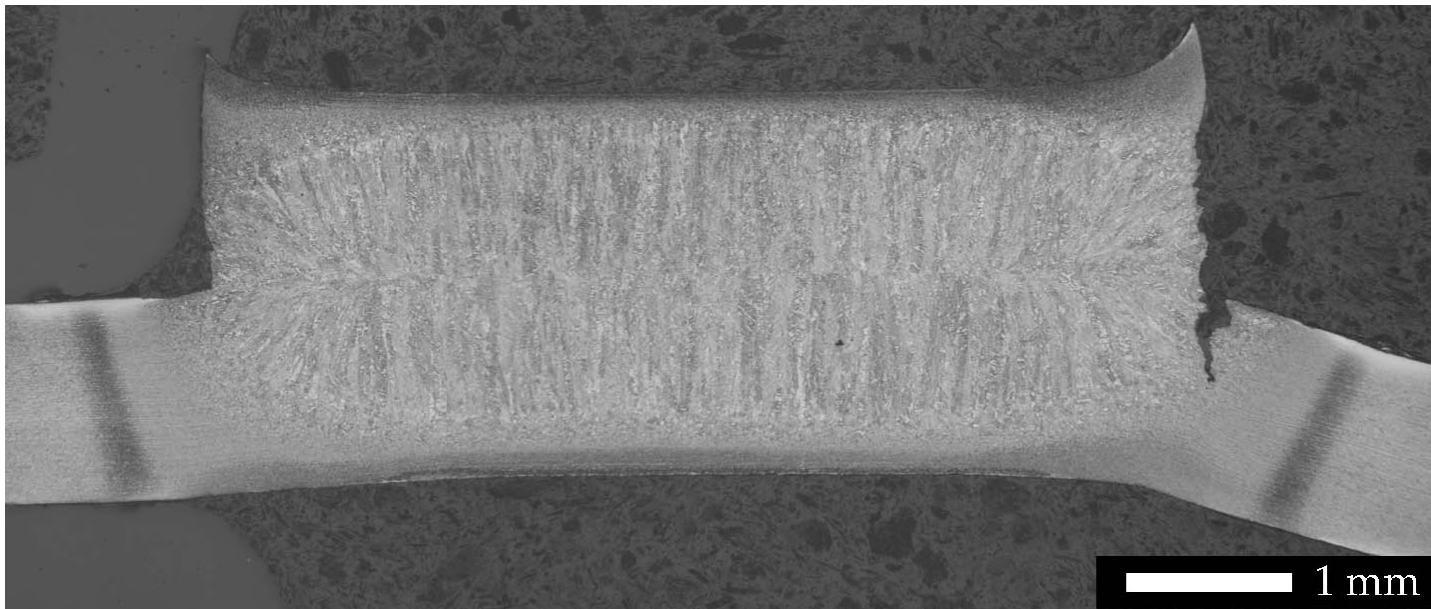
Docol 600DL 0.7 mm

Dogal 600DP 1 mm

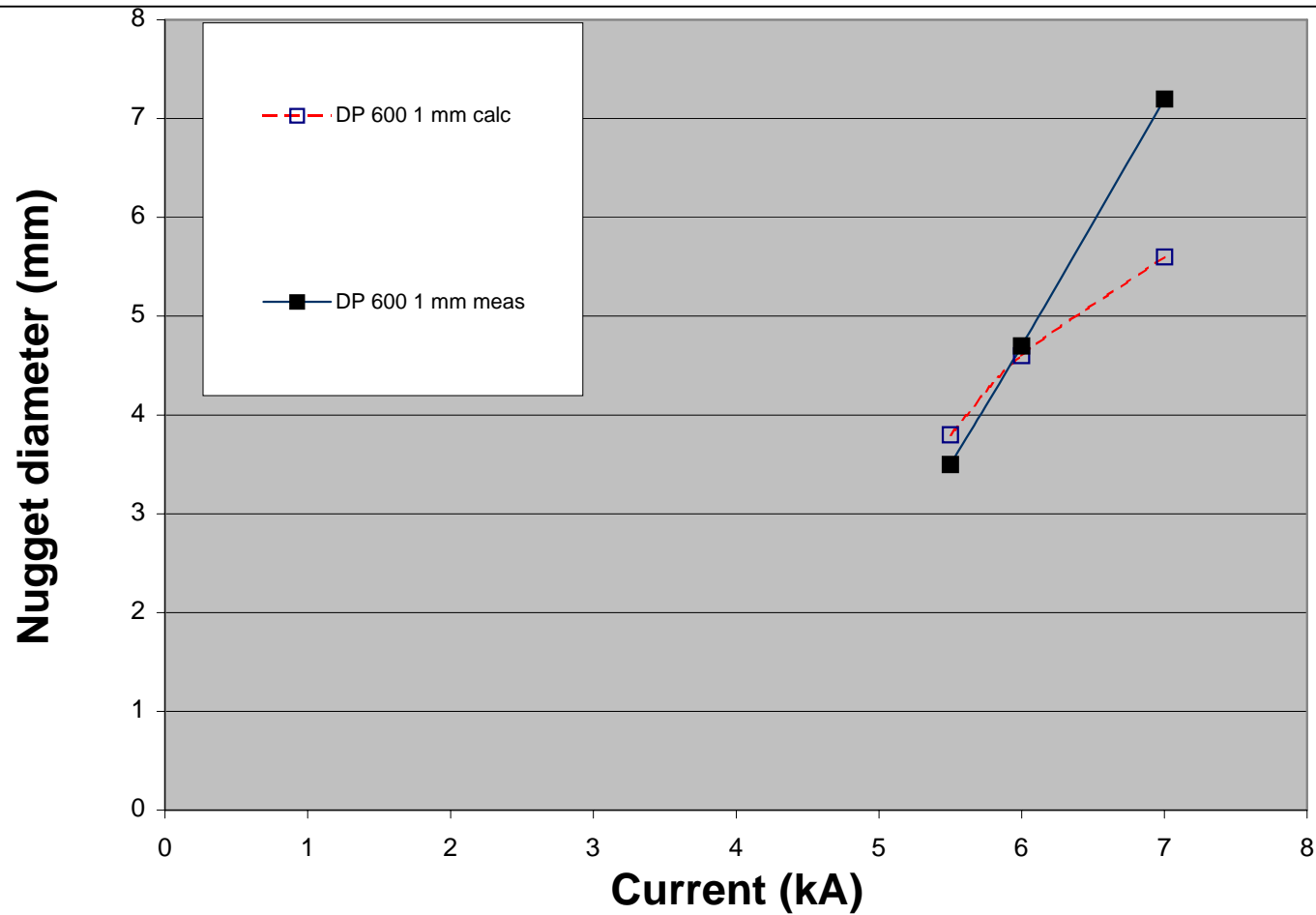
Docol 800DP 1.5 mm och 2 mm

Docol 1000DP 0.8 mm

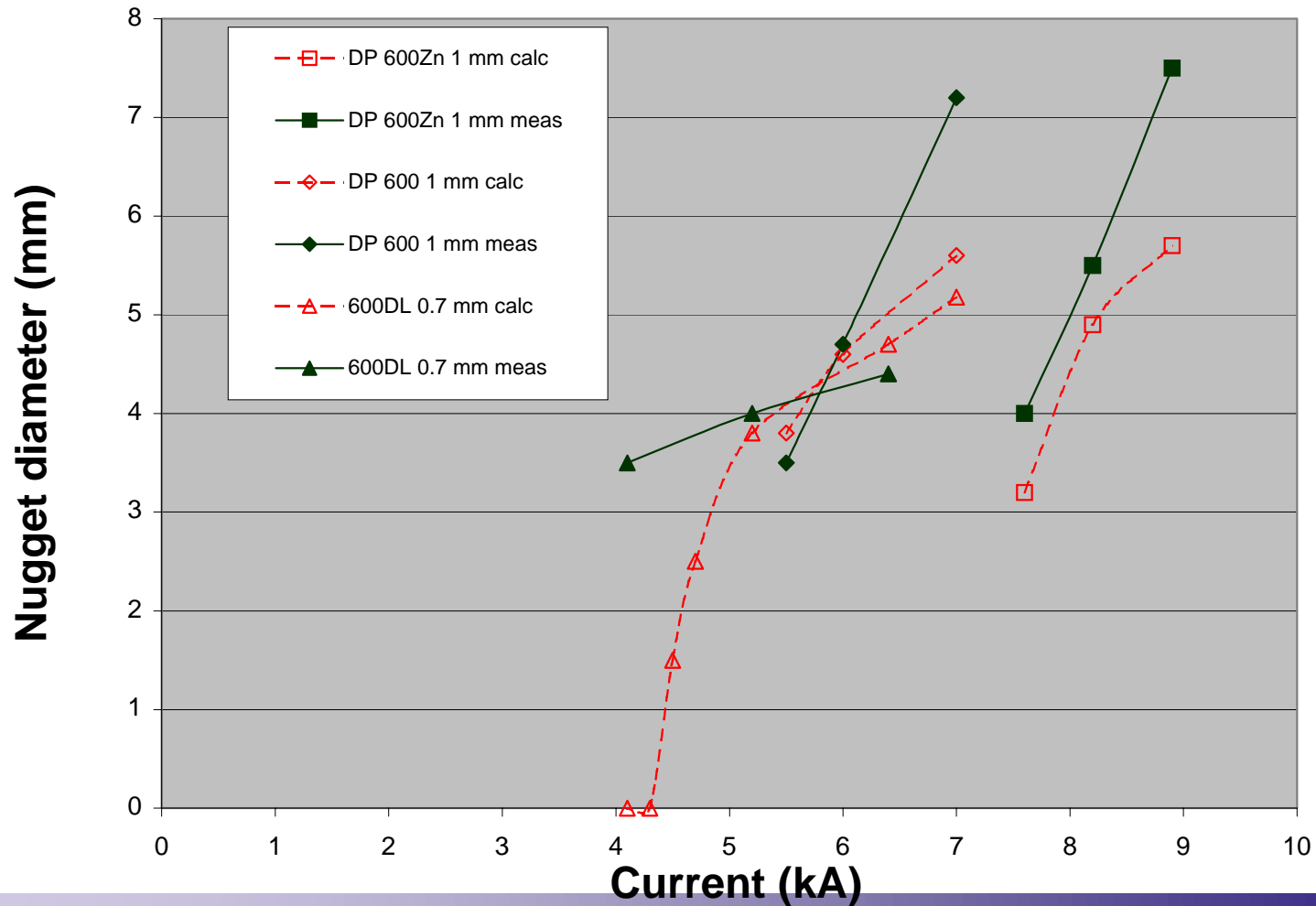
# Linsstorlek - punktstorlek



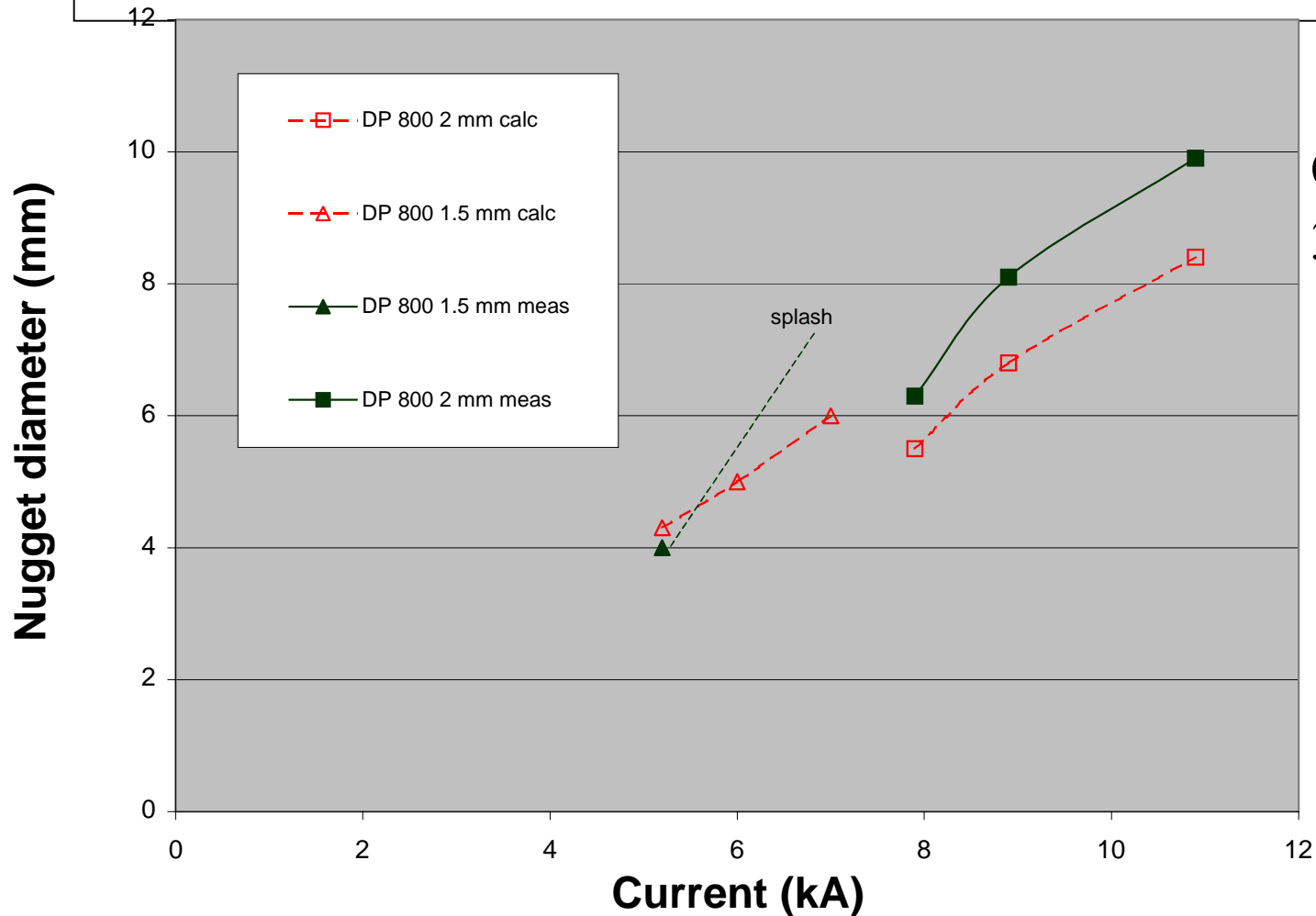
# Docol 600DP 1 mm



# Docol 600DP/Dogal 600DP

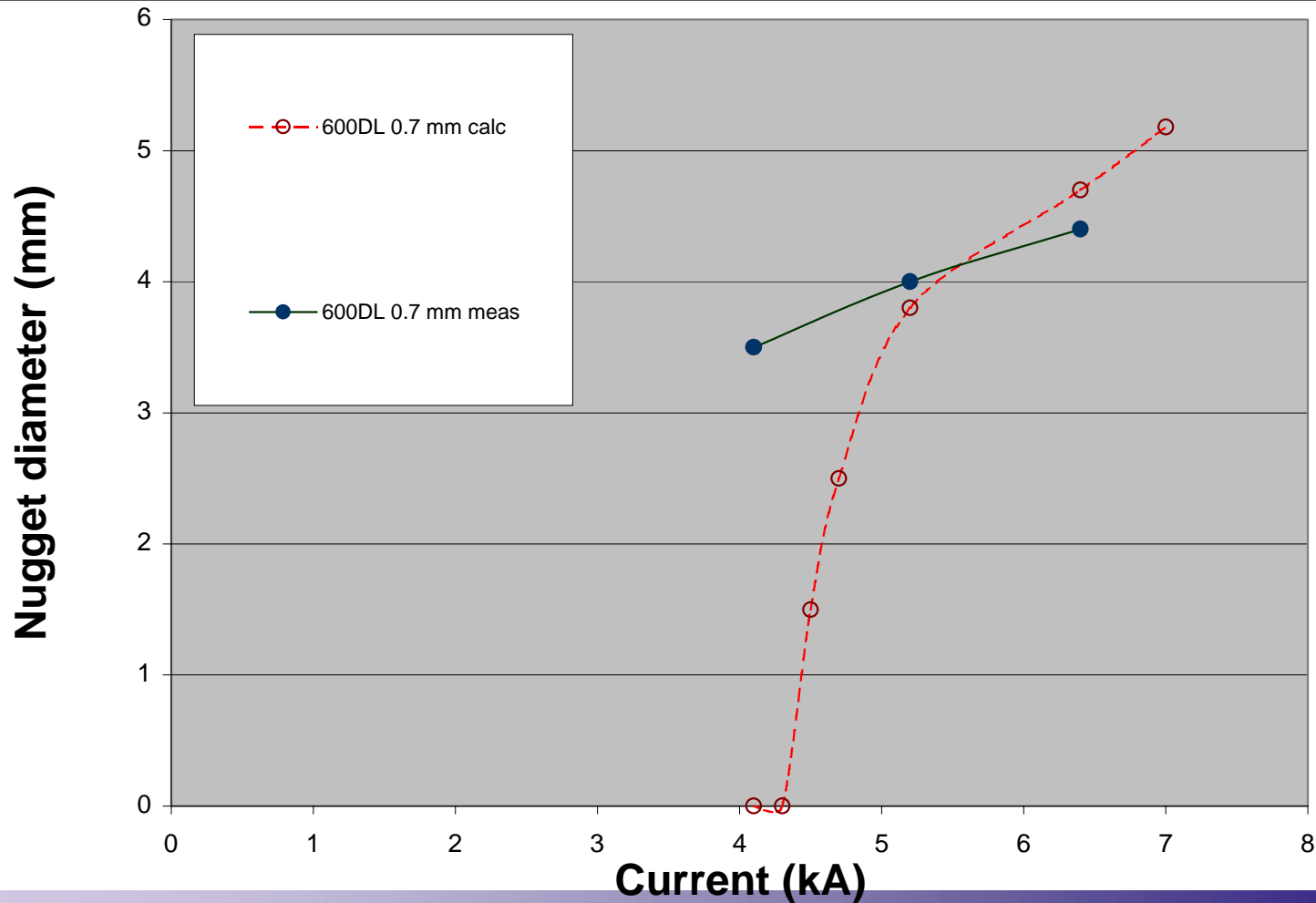


# DP 800 1,5 och 2.0 mm

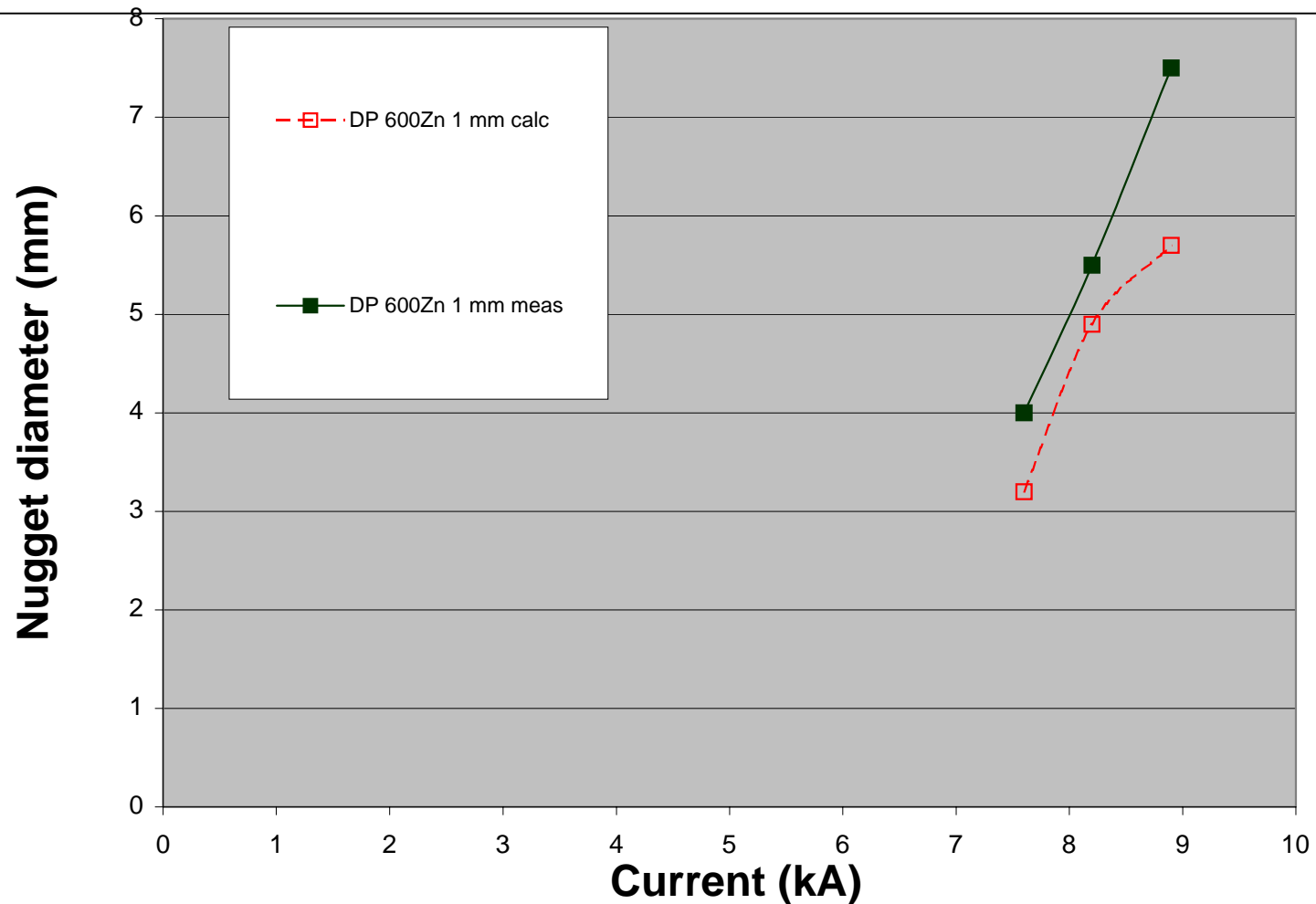


OBS! “Ytan” =  
3, mot normalt  
1

# Docol 600DL 0.7 mm



# Dogal 600DP 1 mm



# Docol 1000DP 0.8 mm

