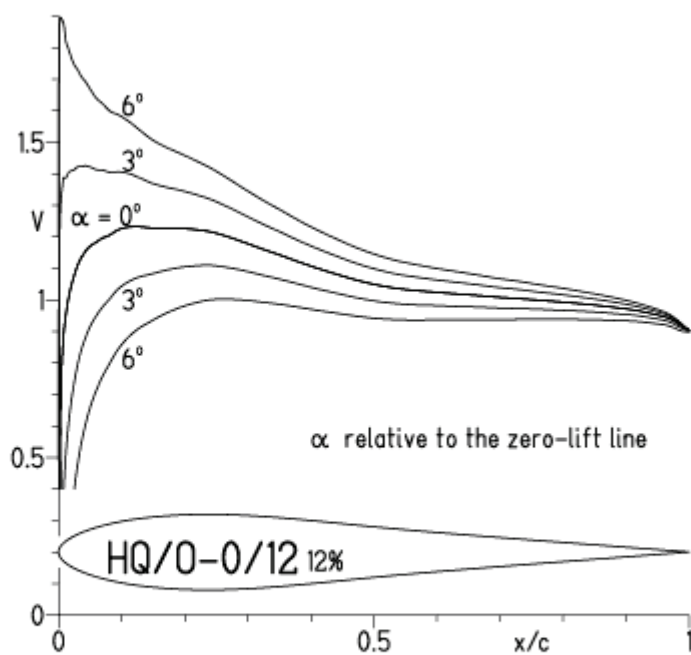


HQ/Oldy-0-12-Polaren, N=9

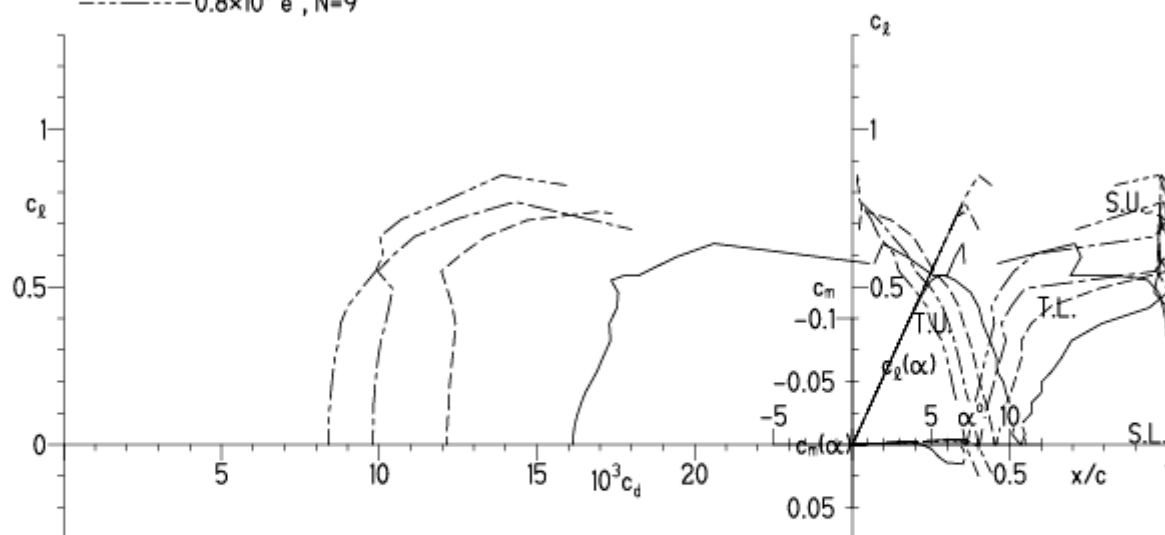
EPPLER 2005 V. 8.5.07 RUN 14.6.12 16:27



EPPLER 2005 V. 8.5.07 RUN 14.6.12 16:27

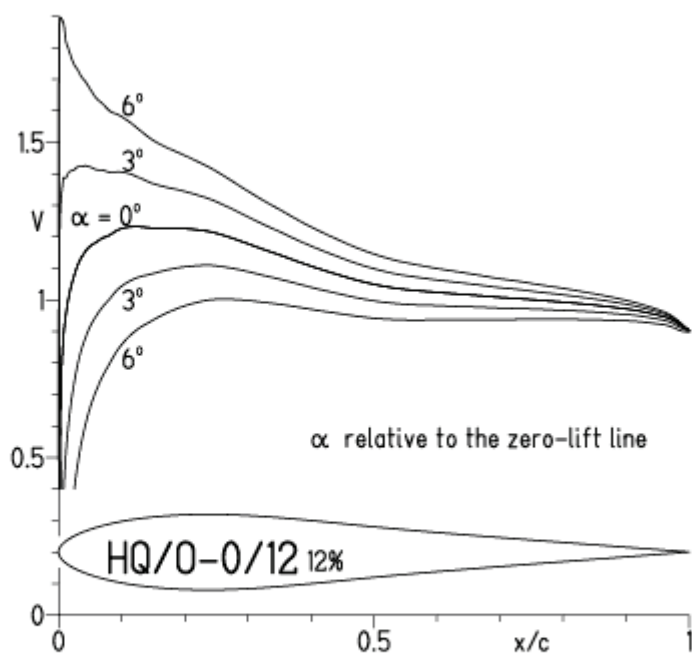
HQ/O-0-12 12%

— $Re = 0.1 \times 10^6$, $N=9$
 - - - 0.2×10^6 , $N=9$
 - - - 0.4×10^6 , $N=9$
 - - - 0.8×10^6 , $N=9$



HQ/Oldy-0-12-Polaren, N=7

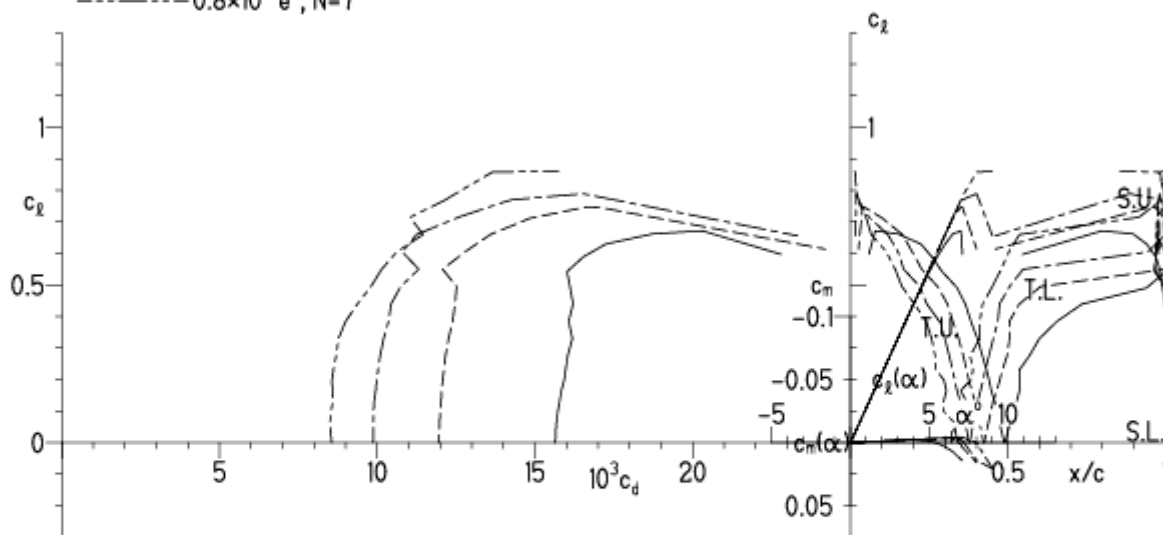
EPPLER 2005 V. 8.5.07 RUN 14.6.12 16:24



EPPLER 2005 V. 8.5.07 RUN 14.6.12 16

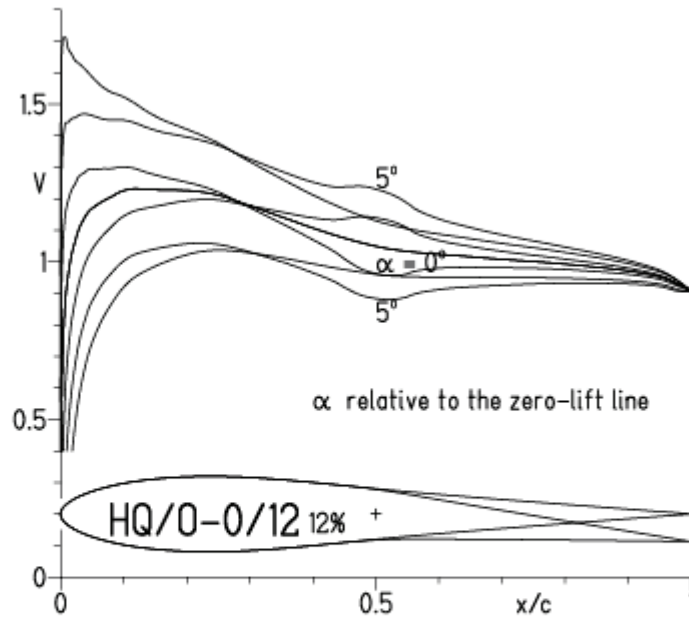
HQ/O-0-12 12%

— $Re = 0.1 \times 10^6$, $N=7$
 - - - 0.2×10^6 , $N=7$
 - - - 0.4×10^6 , $N=7$
 - - - 0.8×10^6 , $N=7$



HQ/Oldy-0-12-Polaren, $N=7$, 5° Ruderausschlag bei 0,5 l,

EPPLER 2005 V. 8.5.07 RUN 14.6.12 17:27

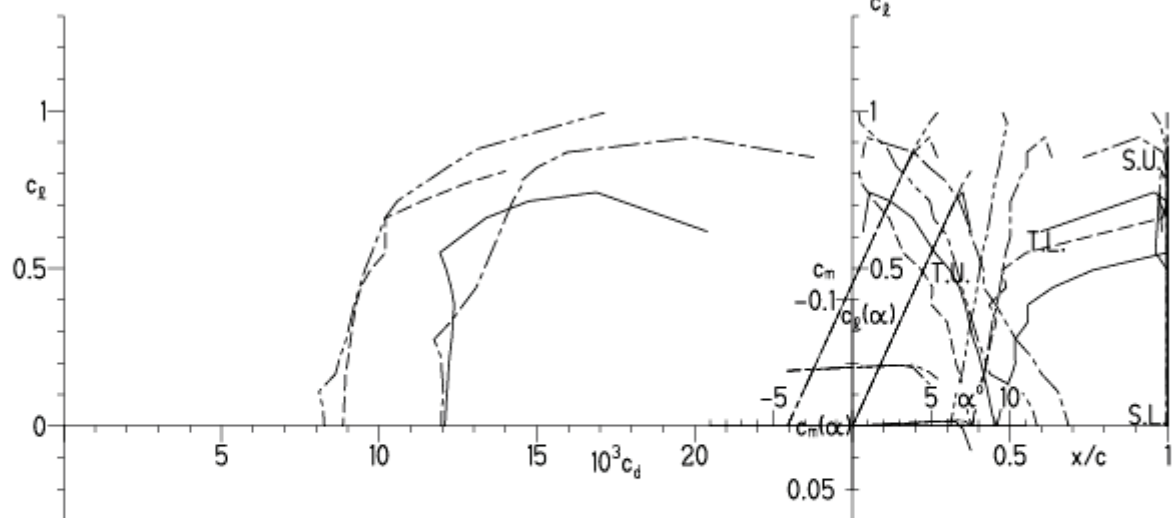


EPPLER 2005 V. 8.5.07 RUN 14.6.12 17:27

HQ/O-0/12 12%

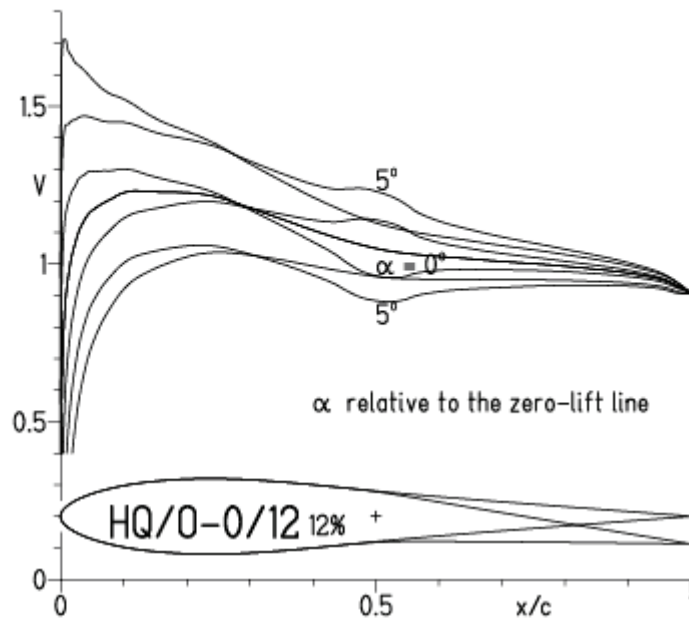
- $Re = 0.2 \times 10^6$ e^N, $N=9$
- - - 0.6×10^6 e^N, $N=9$
- · - 50% Flap 5° , $Re = 0.2 \times 10^6$ e^N, $N=9$
- - - 0.6×10^6 e^N, $N=9$

- T. boundary layer transition
- S. boundary layer separation
- U. upper surface
- L. lower surface



HQ/Oldy-0-12-Polaren, $N=7$, 5° Ruderausschlag bei 0,5 l, Turbulatoreffekt
(optimale Position bei 15 -20 % der Profiltiefe, Turb. oben und unten)

EPPLER 2005 V. 8.5.07 RUN 14.6.12 17:11

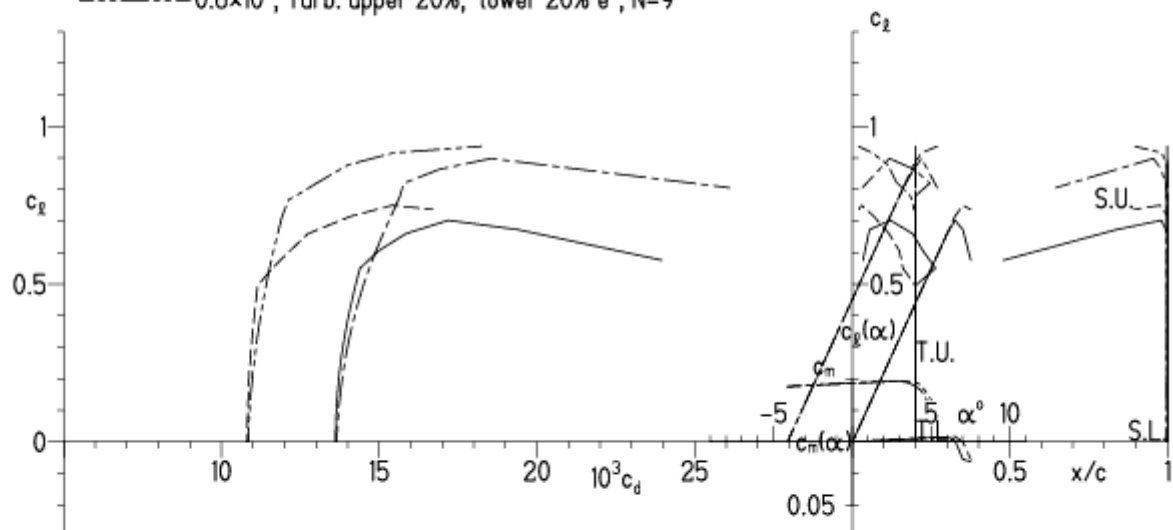


EPPLER 2005 V. 8.5.07 RUN 14.6.12 17:11

HQ/O-0/12 12%

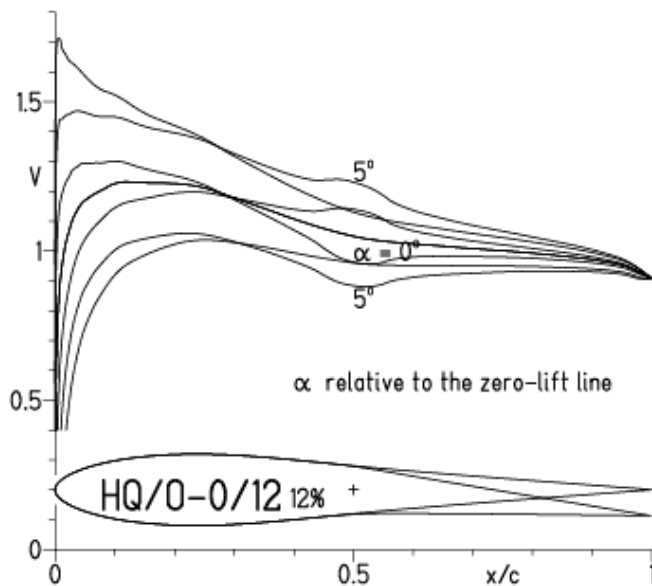
- $Re = 0.2 \times 10^6$, Turb. upper 20%, lower 20% e^N , $N=9$
- - - 0.6×10^6 , Turb. upper 20%, lower 20% e^N , $N=9$
- · - 50% Flap 5° , $Re = 0.2 \times 10^6$, Turb. upper 20%, lower 20% e^N , $N=9$
- · - 0.6×10^6 , Turb. upper 20%, lower 20% e^N , $N=9$

- T. boundary layer transition
- S. boundary layer separation
- U. upper surface
- L. lower surface



HQ/Oldy-0-12-Polaren, $N=7$, 5° Ruderausschlag bei 0,5 l, Turb. oben und unten
 Turbulatoreffekt bei niedrigen Re-Zahlen, optimale Position bei 15 -20 % der Profiltiefe

EPPLER 2005 V. 8.5.07 RUN 14.6.12 16:56



EPPLER 2005 V. 8.5.07 RUN 14.6.12 16:56

HQ/O-0/12 12%

- $Re = 0.1 \times 10^6$, Turb. upper 20%, lower 20% e^N , $N=7$
- - - 0.2×10^6 , Turb. upper 20%, lower 20% e^N , $N=7$
- 50% Flap 5° , $Re = 0.1 \times 10^6$, Turb. upper 20%, lower 20% e^N , $N=7$
- - - 0.2×10^6 , Turb. upper 20%, lower 20% e^N , $N=7$

- T. boundary layer transition
- S. boundary layer separation
- U. upper surface
- L. lower surface

