

# CHROMATECH plus

Value for money

CHROMATECH plus - Long-lasting and perfect IG-unit solution

Characteristics for "Warm edge"	CHROMATECH plus Spacer Bar
Thermal values	<ul style="list-style-type: none"> <li>• Low thermal transmittance = 14.3 W/mK (Aluminium 200)</li> <li>• Cr-Ni-Steel (stainless steel) 1.4301</li> <li>• Low Ψ value</li> <li>• Higher surface temp. on the glass</li> <li>• Minimal condensation</li> <li>• Uw improvement of 0.1-0.2 W/m²K</li> </ul>
IG-unit System	<ul style="list-style-type: none"> <li>• No system risk</li> <li>• Fulfilment of EN 1279 part 2/3</li> <li>• No chemical condensation (Fogging)</li> <li>• High frame stability</li> <li>• No shape and material changes secures long durability</li> </ul>
Workability	<ul style="list-style-type: none"> <li>• Bending with empty spacer bar*</li> <li>• Bending with prefilled spacer bar*</li> <li>• High productivity</li> <li>• Also suitable for models</li> <li>• Accessories</li> <li>• Can be supplied in all NCS and RAL colours</li> </ul>
Spacer Bar / System cost	<ul style="list-style-type: none"> <li>• Excellent value for money</li> </ul>

\* Bending machine with bending equipment for stainless steel spacer bar



# CHROMATECH & CHROMATECH plus

Considerably reduced cold-bridging in the IG-unit

Reduction in heat loss (Uw value) 0.1-0.2 W/m²K

Prevents

- Condensation on the IG-unit & the Window rebate
- Consequently damage on the frame in shape of fungus



CHROMATECH and CHROMATECH plus = the optimal solution



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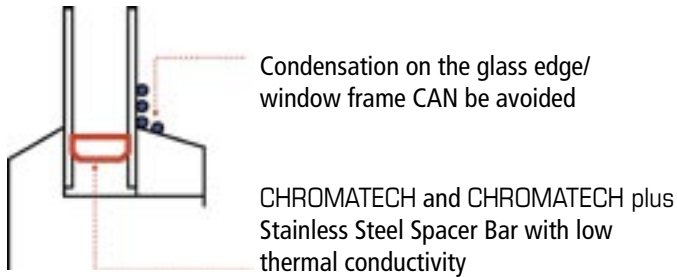
## WARM EDGE for the modern window

CHROMATECH  
CHROMATECH plus

WARM EDGE spacer  
in stainless steel

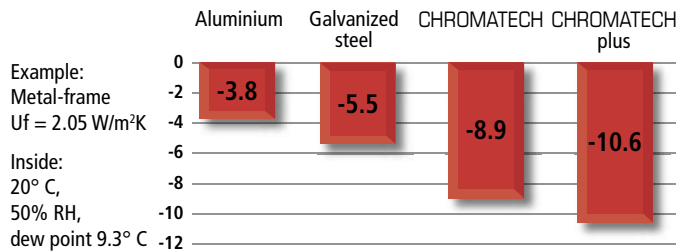
# CHROMATECH and CHROMATECH plus Stainless Steel Spacer Bar for the IG-unit production

Consequently damage can be avoided



- 1-2° C higher surface temperature on the glass
- Condensation will be minimized
- Prevents damage on the frame
- Reduces the heat loss
- A valuable investment
- Belongs to the modern window

Critical outdoor temperature in ° C , at which condensation begins on the inside

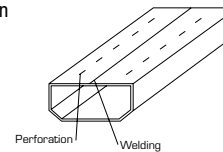


CHROMATECH plus  
Wall thickness 0.15 mm



TYPE	CAVITY	HEIGHT	WIDTH
CHROMATECH plus 10	10	7.0	9.5
CHROMATECH plus 12	12	7.0	11.5
CHROMATECH plus 14	14	7.0	13.5
CHROMATECH plus 15	15	7.0	14.5
CHROMATECH plus 16	16	7.0	15.5
CHROMATECH plus 18	18	7.0	17.5
CHROMATECH plus 20	20	7.0	19.5

- Minimal gas leakage & minimal moisture penetration
- Fulfilment of the newest EU Standard EN 1279
- Can be supplied in all NCS and RAL colours
- The 2 upper mm of butyle sides are also painted



CHROMATECH  
Wall thickness 0.18 mm

TYPE	CAVITY	HEIGHT	WIDTH
CHROMATECH 8	8	6.5	7.5
CHROMATECH 10	10	6.5	9.5
CHROMATECH 12	12	6.5	11.5
CHROMATECH 14	14	6.5	13.5
CHROMATECH 15	15	6.5	14.5
CHROMATECH 16	16	6.5	15.5
CHROMATECH 18	18	6.5	17.5
CHROMATECH 20	20	6.5	19.5
CHROMATECH 24	24	6.5	23.5

Window - U<sub>w</sub> - calculation after EN 10077:

$$U_w = \frac{U_g \cdot A_g + U_f \cdot A_f + \Psi \cdot l}{A_g + A_f}$$

Thermal data for CHROMATECH plus

Ψ - values for CHROMATECH plus 0.15 and aluminium spacers in different frame constructions with DOUBLE IG-unit (4 / 16 / 4, 90% Argon, Coating εn3 = 0.04).

Frame	Linear thermal transmittance Ψ (Psi) i W/mK
Aluminium Aluminium	0.108
Aluminium CHROMATECH plus	0.065
Wood Aluminium	0.068
Wood CHROMATECH plus	0.048
PVC Aluminium	0.067
PVC CHROMATECH plus	0.048

Ψ - values for CHROMATECH plus 0.15 og aluminium spacers in different frame constructions with TRIPLE IG-unit (4 / 12 / 4 / 12 / 4, 90% Argon, Coating εn2 = εn5 = 0.04).

Frame	Linear thermal transmittance Ψ (Psi) i W/mK
Aluminium Aluminium	0.111
Aluminium CHROMATECH plus	0.056
Wood Aluminium	0.074
Wood CHROMATECH plus	0.045
PVC Aluminium	0.070
PVC CHROMATECH plus	0.044

Please note: Ψ - value depends on many factors:

- Actual position of IG-unit in the frame
- Uf - value of the window frame
- Ug - value of the IG-unit