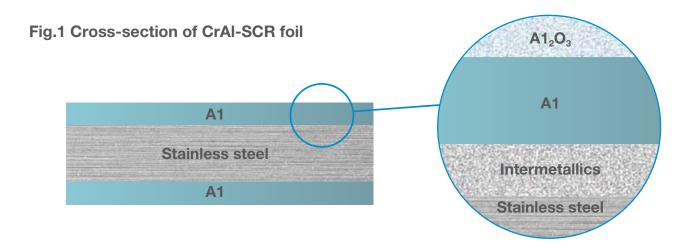


Technical Information

Al coated stainless steel foil (CrAI-SCR) is an aluminized ferritic chromium steel especially developed for applications as metallic substrate for catalytic converters and diesel particle filters in automotive exhaust systems (Passengers cars, truck, buses, motorcycles, boots as well as non-road machinery etc...).

Due to the dense and strong aluminum oxide layer on the surface the CrAI-SCR foil has a good resistance against oxidation at high temperatures, as well as a high formstability. The characteristic of the CrAI-SCR foil is optimised for strong adhesion for further coatings.





MKM CrAI-SCR foil is characterized by:

- excellent oxidation and corrosion resistance under isothermal and cyclic conditions
- good high-temperature strength
- ease of working and processing as well as coating

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TABLE 1 - DIMENSIONS AND DELIVERY CONDITIONS

Alloys	Thickness [mm]	Width [mm]	Al-layer Thickness [µm]	Delivery conditions	
CrAI-SCR	0.020 - 0.100	max. 500	0.4 – 2.0	Cold rolled / Bright-annealed	

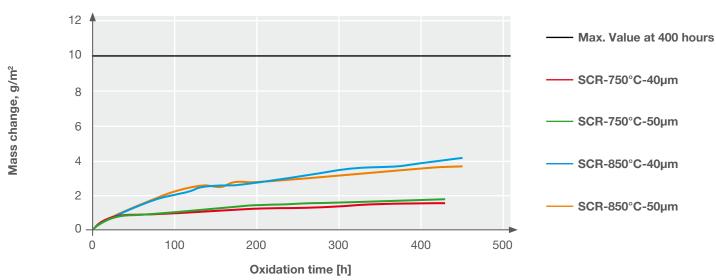
TABLE 2 - CHEMICAL COMPOSITION (WT.%)

Alloys	С	Si	Mn	Р	S	Cr	Ti	Nb
CrAI-SCR	≤ 0.030	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.02	16.00-20.00	0.1-0.6	0.3-1.0
Surface layer: Al	Al: 87%; Si: 10%; Fe: 3%							

TABLE 3 - MECHANICAL PROPERTIES AND SURFACE ROUGHNESS (TYPICAL VALUES)

Condition	Thickness [µm]	Yield strength [MPa]	Tensile strength [MPa]	Elonggation [%]	Ra µm
Cold rolled	50	> 800	< 1,200	< 1.5	0.1-0.3
Bright- annealed	50	> 300	< 700	~ 20	0.2-0.6

Fig. 2 Temperature oxidation resistance of CrAI-SCR foils at 850°C



OXIDATION RESTANCE (850°C)

The data contained in this sheet is based on information from our own and other organisations; although every effort has been made to ensure its accuracy, no guarantee or warranty is given or implied as to fitness for specific applications.

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