

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_21

Order number ZAK_Aremco_2014_01-3

Customer Aremco Products Inc.

Sample ID customer 840-MS
NTC 840_MS_01

Measured quantity spectral normal emissivity

Measurement method SNEHT

Temperature (T) 300°C

Polar angle (θ) 0°

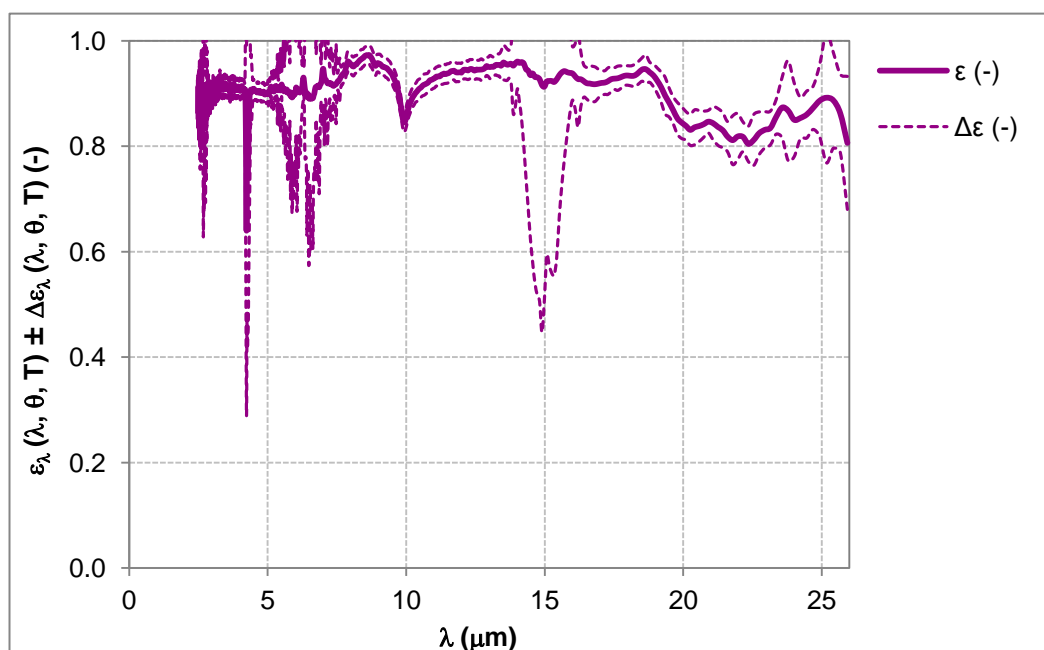
Date 23.2.2015

Measured by Ing. Petra Honnerová, Ph.D.

Responsible person Ing. Jiri Martan, Ph.D.

tel.: +420 377 634 718

e-mail: jmartan@ntc.zcu.cz



| λ (μm) | 2.5 | 3.5 | 4.7 | 8.3 | 10 | 12.5 | 17.5 | 20 | 25 |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| $\epsilon_\lambda(\lambda, \theta, T)$ (-) | 0.852 | 0.913 | 0.902 | 0.962 | 0.858 | 0.946 | 0.928 | 0.845 | 0.887 |
| $\Delta\epsilon$ (-), $k = 2$ | 0.021 | 0.017 | 0.017 | 0.018 | 0.018 | 0.018 | 0.024 | 0.030 | 0.041 |

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_22

Order number ZAK_Aremco_2014_01-3

Customer Aremco Products Inc.

Sample ID customer 840-MS
NTC 840_MS_01

Measured quantity spectral normal emissivity

Measurement method SNEHT

Temperature (T) 400°C

Polar angle (θ) 0°

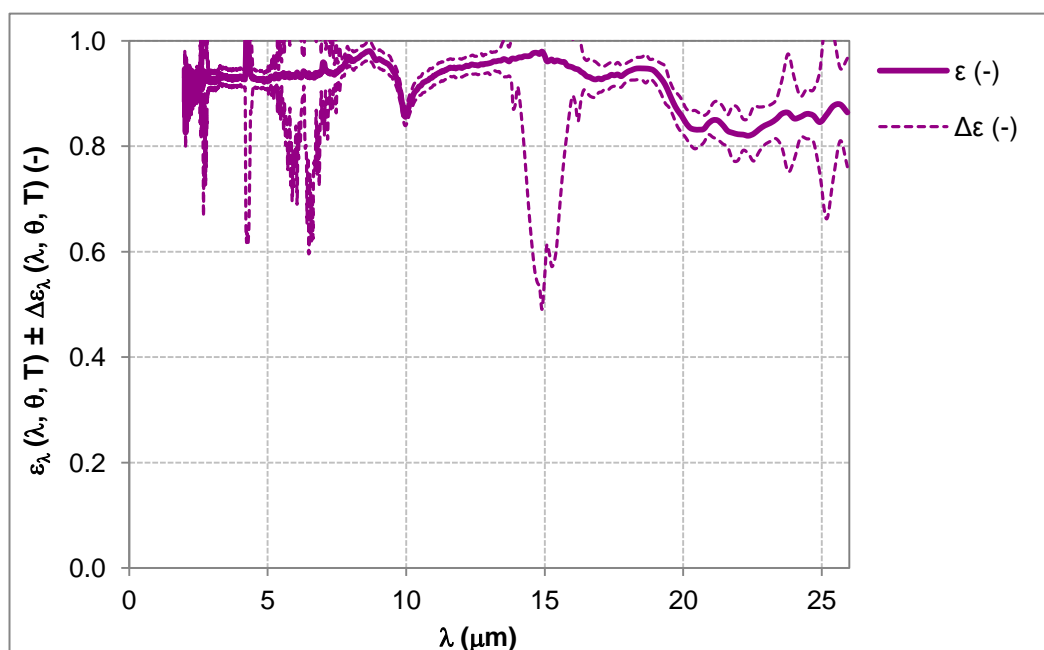
Date 23.2.2015

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| λ (μm) | 2 | 3.5 | 4.7 | 8.3 | 10 | 12.5 | 17.5 | 20 | 25 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| $\varepsilon_{\lambda}(\lambda, \theta, T)$ (-) | 0.884 | 0.931 | 0.926 | 0.969 | 0.861 | 0.954 | 0.934 | 0.857 | 0.845 |
| $\Delta\varepsilon$ (-), $k = 2$ | 0.037 | 0.016 | 0.016 | 0.017 | 0.017 | 0.017 | 0.023 | 0.031 | 0.048 |

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_23

Order number ZAK_Aremco_2014_01-3

Customer Aremco Products Inc.

Sample ID customer 840-MS
NTC 840_MS_01

Measured quantity spectral normal emissivity

Measurement method SNEHT

Temperature (T) 500°C

Polar angle (θ) 0°

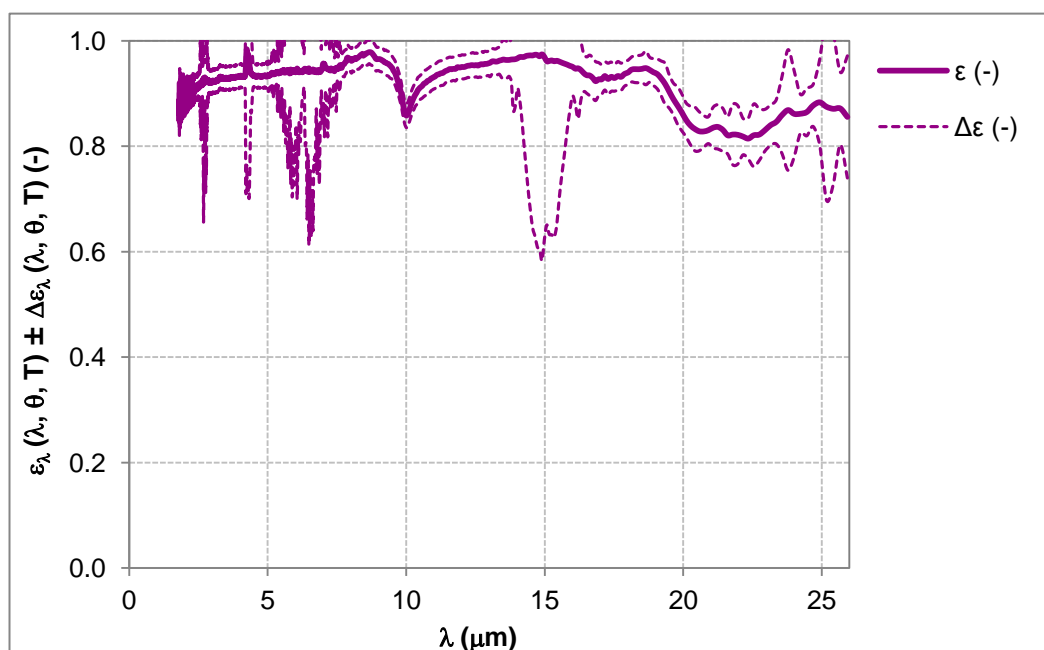
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| λ (μm) | 2 | 3.5 | 4.7 | 8.3 | 10 | 12.5 | 17.5 | 20 | 25 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| $\varepsilon_{\lambda}(\lambda, \theta, T)$ (-) | 0.887 | 0.929 | 0.934 | 0.971 | 0.858 | 0.954 | 0.929 | 0.865 | 0.883 |
| $\Delta\varepsilon$ (-), $k = 2$ | 0.024 | 0.022 | 0.022 | 0.023 | 0.021 | 0.022 | 0.027 | 0.035 | 0.040 |