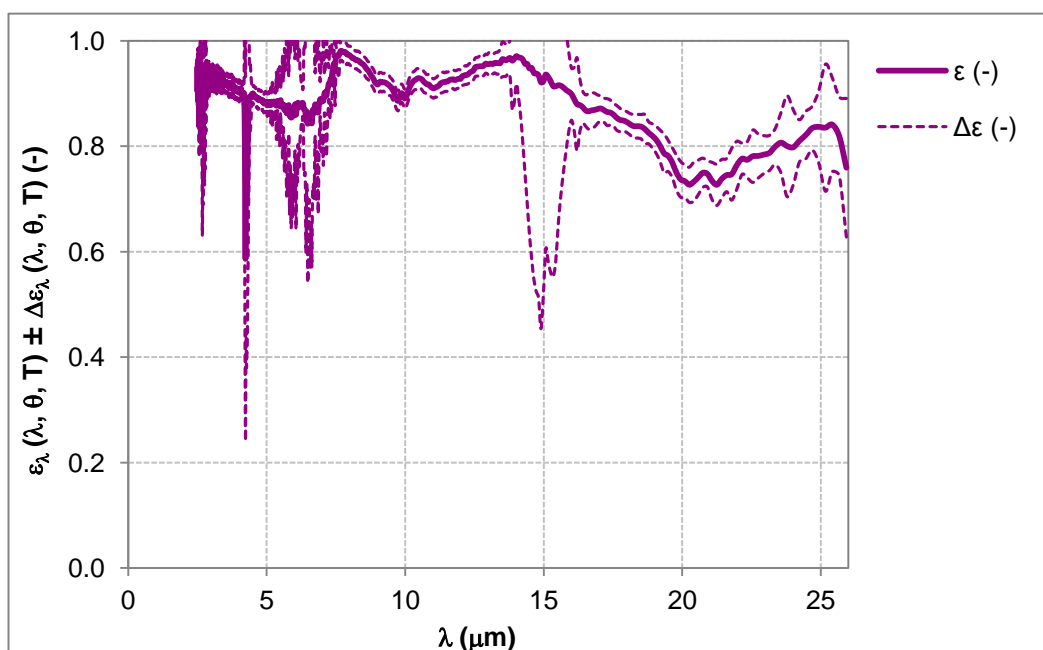


MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_24

Order number ZAK_Aremco_2014_01-3
Customer Aremco Products Inc.
Sample ID customer 840-CM
 NTC 840_CM_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
$\varepsilon_{\lambda}(\lambda, \theta, T)$ (-)	0.904	0.919	0.887	0.962	0.891	0.949	0.860	0.737	0.837
$\Delta\varepsilon$ (-), $k = 2$	0.021	0.017	0.017	0.018	0.018	0.018	0.024	0.033	0.042

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_25

Order number ZAK_Aremco_2014_01-3

Customer Aremco Products Inc.

Sample ID customer 840-CM
NTC 840_CM_01

Measured quantity spectral normal emissivity

Measurement method SNEHT

Temperature (T) 400°C

Polar angle (θ) 0°

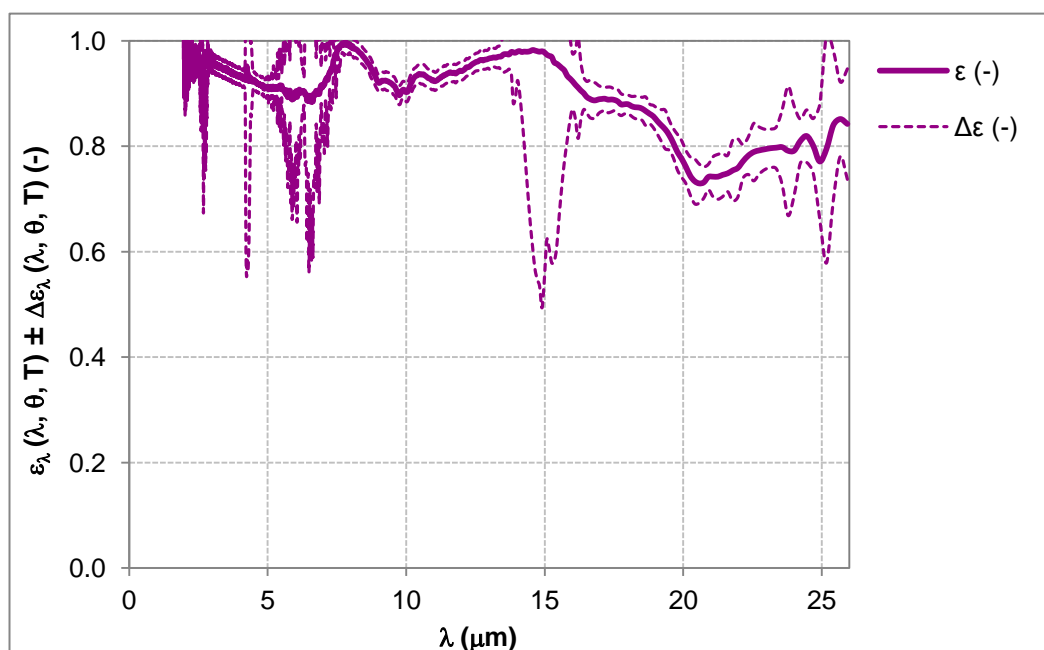
Date 23.2.2015

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	3.5	4.7	8.3	10	12.5	17.5	20	25
$\varepsilon_\lambda(\lambda, \theta, T)$ (-)	0.965	0.945	0.917	0.978	0.902	0.960	0.888	0.776	0.771
$\Delta\varepsilon$ (-), $k = 2$	0.038	0.016	0.016	0.017	0.016	0.017	0.023	0.034	0.052

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_26

Order number ZAK_Aremco_2014_01-3

Customer Aremco Products Inc.

Sample ID customer 840-CM
NTC 840_CM_01

Measured quantity spectral normal emissivity

Measurement method SNEHT

Temperature (T) 500°C

Polar angle (θ) 0°

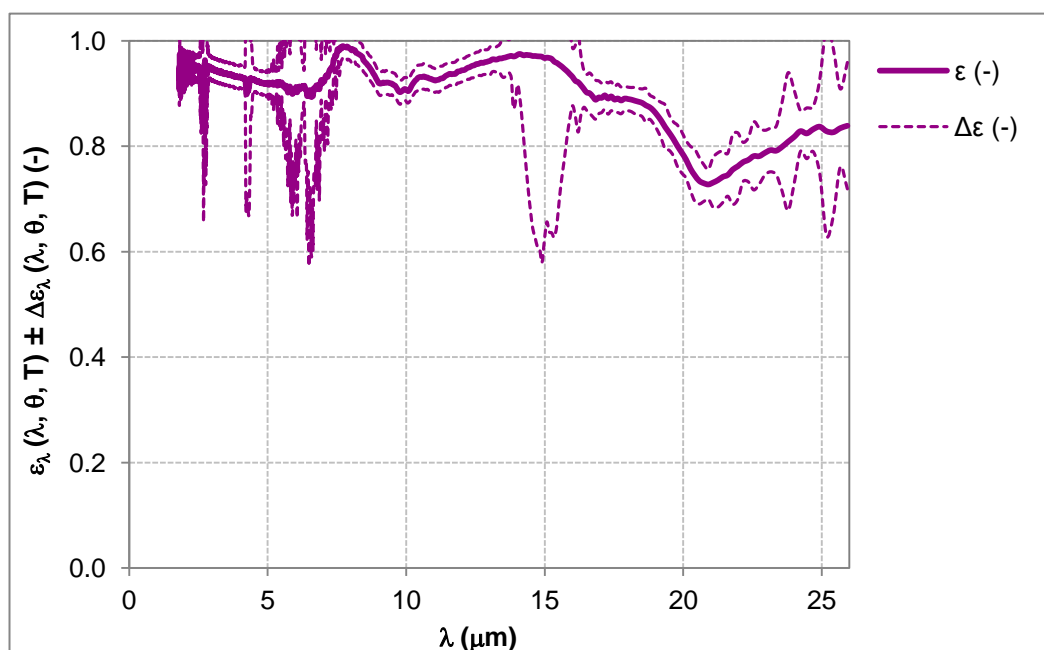
Date 23.2.2015

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

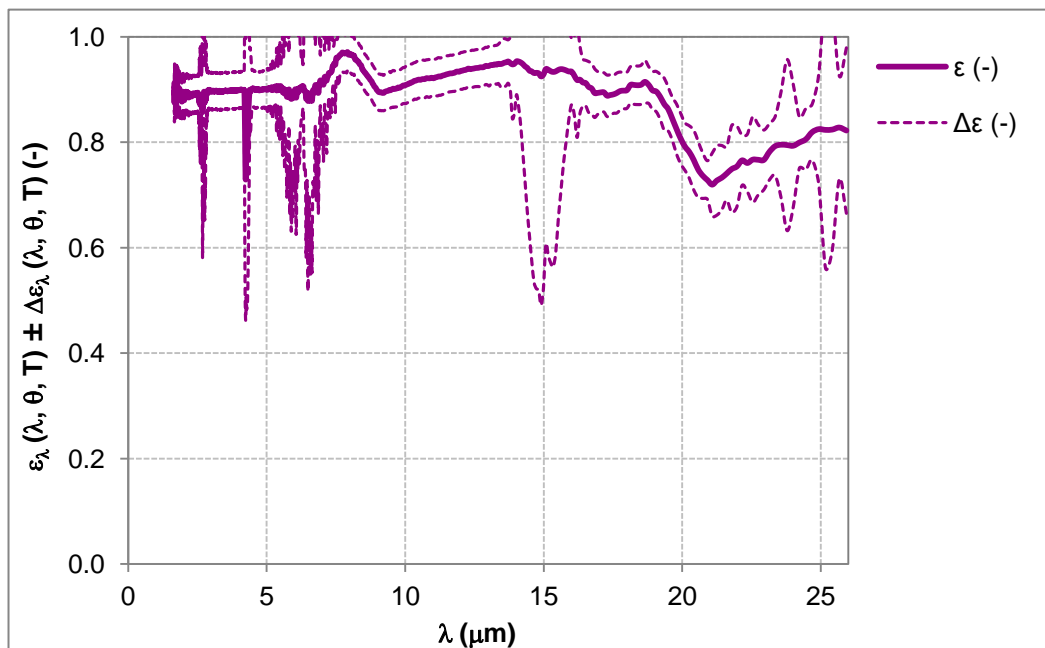


λ (μm)	2	3.5	4.7	8.3	10	12.5	17.5	20	25
$\varepsilon_{\lambda}(\lambda, \theta, T)$ (-)	0.938	0.938	0.922	0.974	0.907	0.956	0.888	0.788	0.837
$\Delta\varepsilon$ (-), $k = 2$	0.024	0.022	0.022	0.023	0.022	0.022	0.027	0.039	0.043

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_27

Order number ZAK_Aremco_2014_01-3
Customer Aremco Products Inc.
Sample ID customer 840-CM
 NTC 840_CM_01
Measured quantity spectral normal emissivity
Measurement method SNEHT
Temperature (T) 600°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	3.5	4.7	8.3	10	12.5	17.5	20	25
$\varepsilon_{\lambda}(\lambda, \theta, T)$ (-)	0.887	0.898	0.900	0.953	0.908	0.940	0.891	0.807	0.825
$\Delta\varepsilon$ (-), $k = 2$	0.035	0.035	0.035	0.036	0.034	0.035	0.038	0.047	0.053

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_28

Order number ZAK_Aremco_2014_01-3

Customer Aremco Products Inc.

Sample ID
customer 840-CM
NTC 840_CM_01

Measured quantity spectral normal emissivity

Measurement method SNEHT

Temperature (T) 700°C

Polar angle (θ) 0°

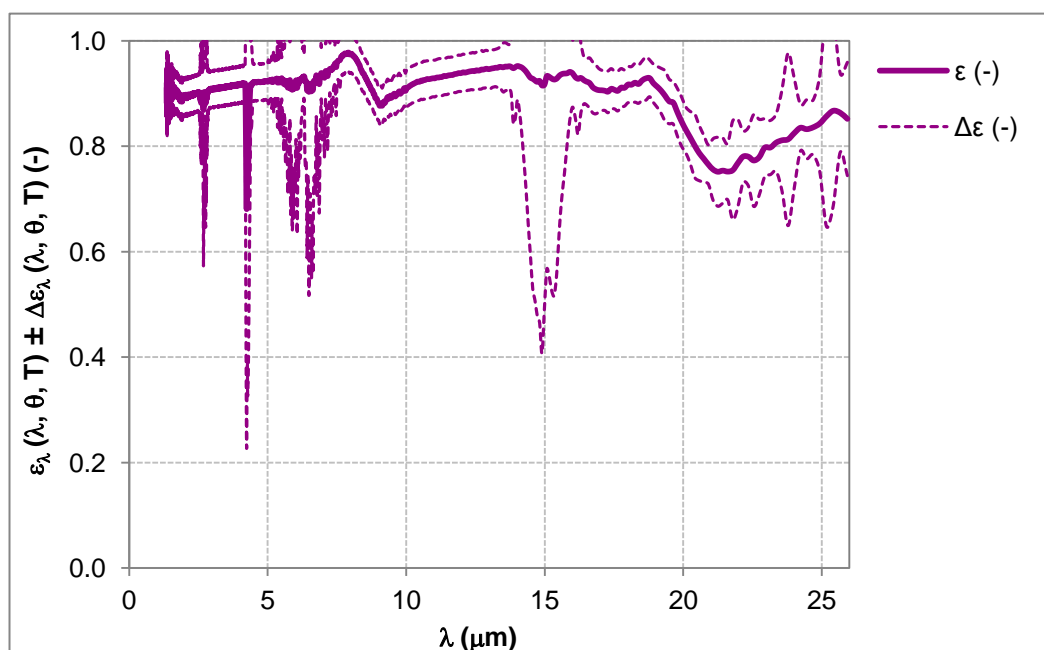
Date 23.2.2015

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

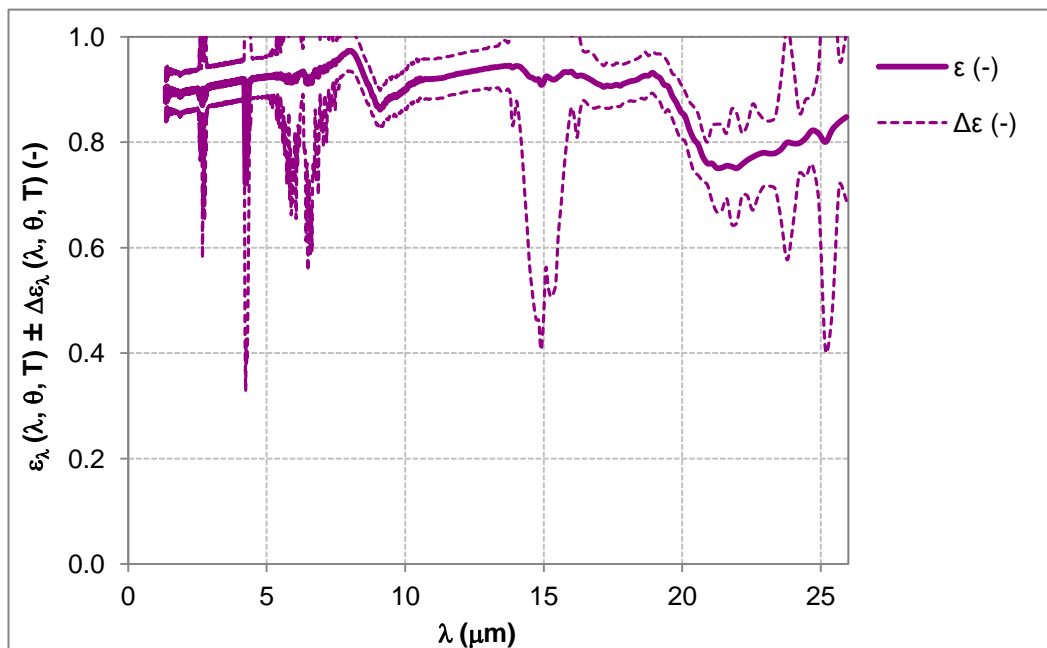


λ (μm)	2	3.5	4.7	8.3	10	12.5	17.5	20	25
$\varepsilon_{\lambda}(\lambda, \theta, T)$ (-)	0.891	0.913	0.921	0.954	0.909	0.944	0.907	0.846	0.843
$\Delta\varepsilon$ (-), $k = 2$	0.035	0.035	0.034	0.035	0.034	0.035	0.038	0.045	0.052

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_29

Order number ZAK_Aremco_2014_01-3
Customer Aremco Products Inc.
Sample ID customer 840-CM
 NTC 840_CM_01
Measured quantity spectral normal emissivity
Measurement method SNEHT
Temperature (T) 800°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	3.5	4.7	8.3	10	12.5	17.5	20	25
$\varepsilon_{\lambda}(\lambda, \theta, T)$ (-)	0.893	0.913	0.922	0.953	0.902	0.936	0.907	0.858	0.816
$\Delta\varepsilon$ (-), $k = 2$	0.037	0.037	0.037	0.038	0.036	0.037	0.041	0.051	0.065

MEASUREMENT PROTOCOL

No. PM_CT3_OPT_2015_03_03_30

Order number ZAK_Aremco_2014_01-3

Customer Aremco Products Inc.

Sample ID customer 840-CM
NTC 840_CM_01

Measured quantity spectral normal emissivity

Measurement method SNEHT

Temperature (T) 900°C

Polar angle (θ) 0°

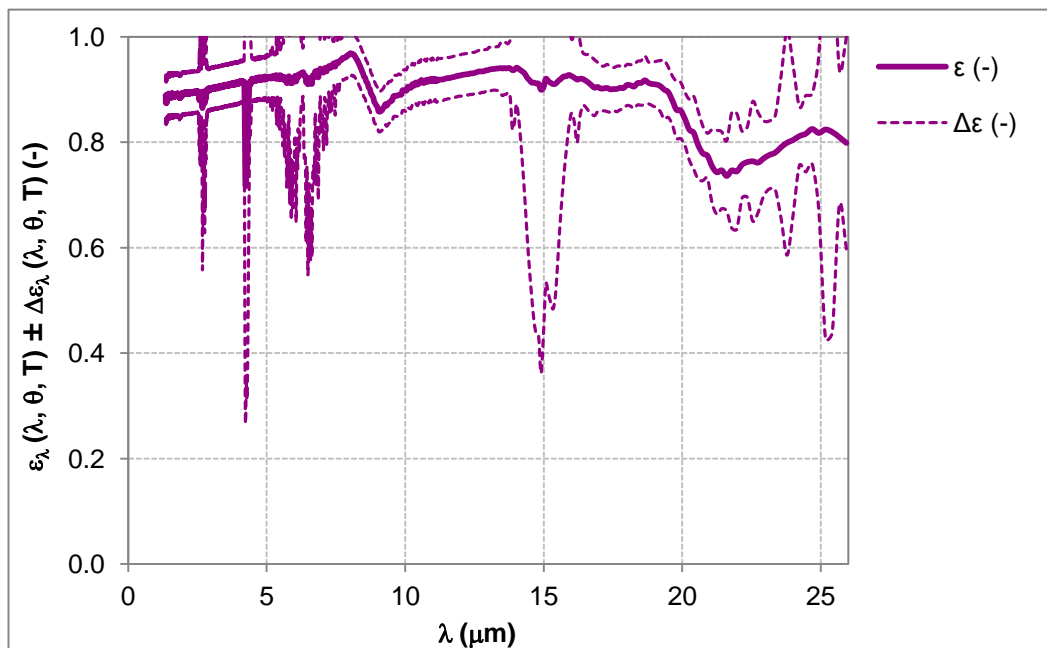
Date 23.2.2015

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	3.5	4.7	8.3	10	12.5	17.5	20	25
$\varepsilon_\lambda(\lambda, \theta, T)$ (-)	0.892	0.908	0.919	0.951	0.898	0.932	0.901	0.860	0.818
$\Delta\varepsilon$ (-), $k = 2$	0.040	0.040	0.040	0.041	0.039	0.040	0.043	0.054	0.067