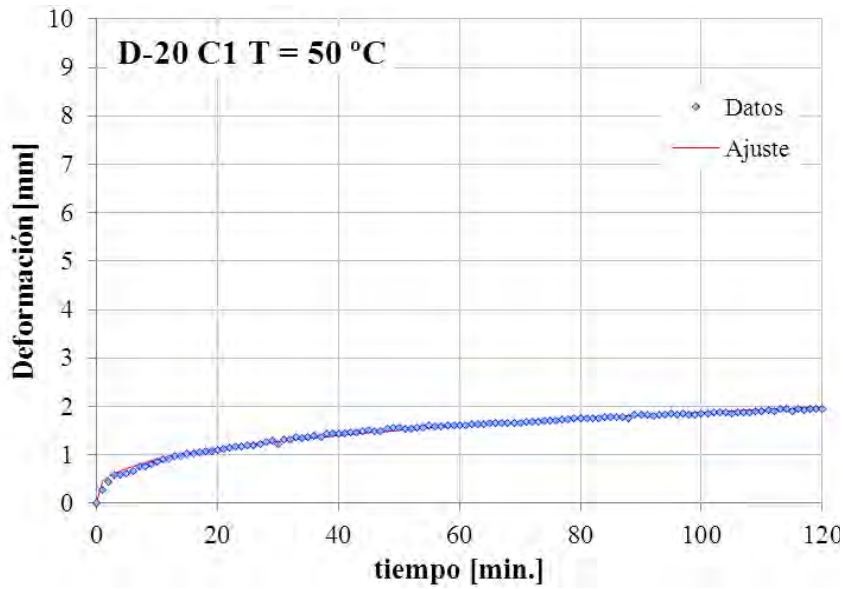


Anexo II

*Curvas de deformación-tiempo.
Ensayos de rueda cargada.*

Mezcla Densa (D-20)
Ensayos a distintas temperaturas

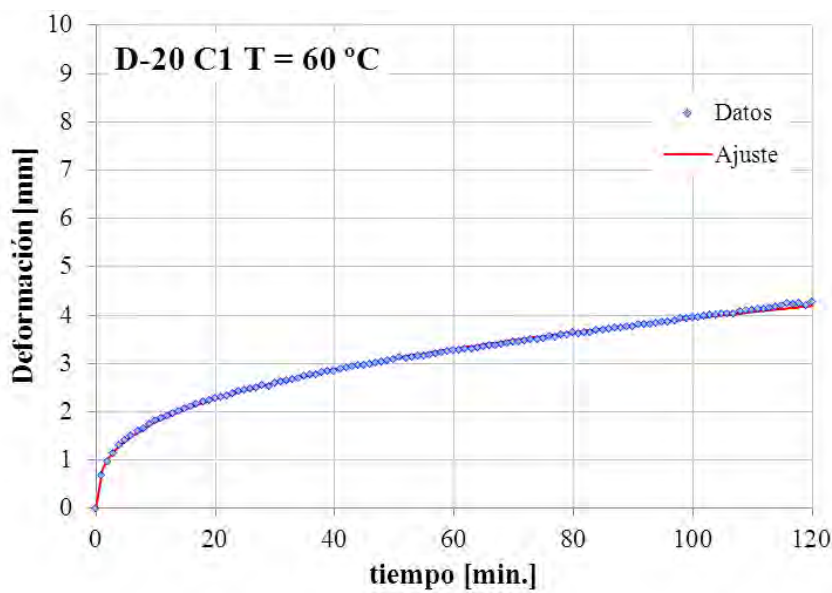


Mezcla (D-20)
Asfalto C1
 $T_{\text{ensayo}} = 50 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,4350$; $b = 0,3173$

$R^2 = 0,99$

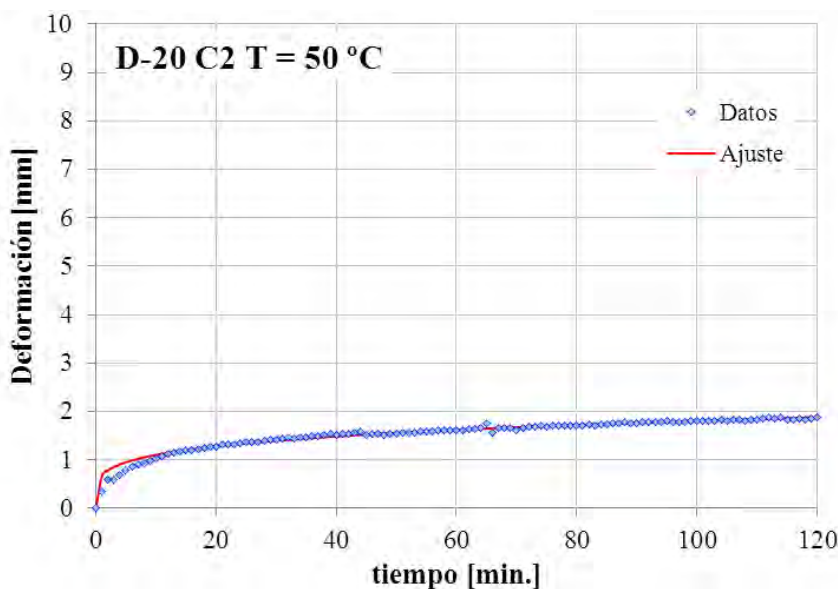


Mezcla (D-20)
Asfalto C1
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,8153$; $b = 0,3417$

$R^2 = 0,99$

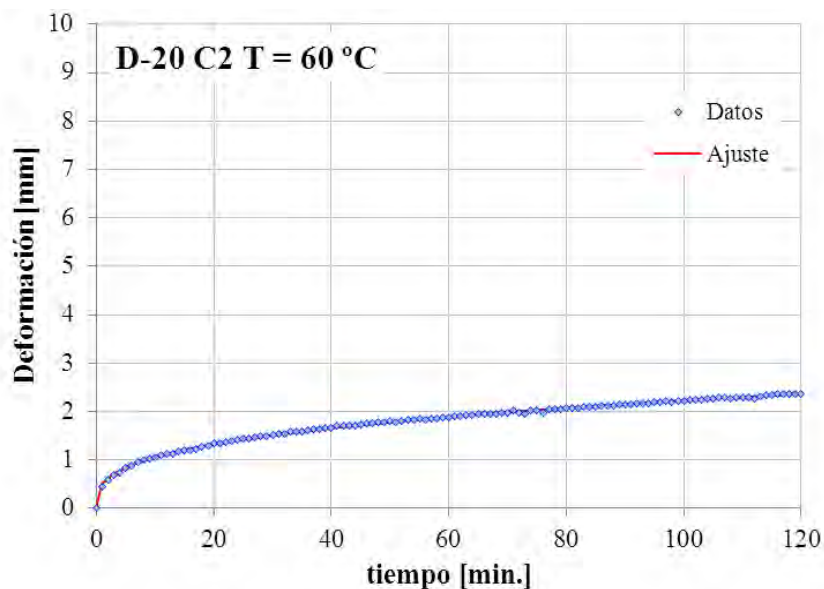


Mezcla (D-20)
Asfalto C2
 $T_{\text{ensayo}} : 50 \text{ °C}$
Carga: 520 N

Ajuste

$a = 0,6754$; $b = 0,2138$

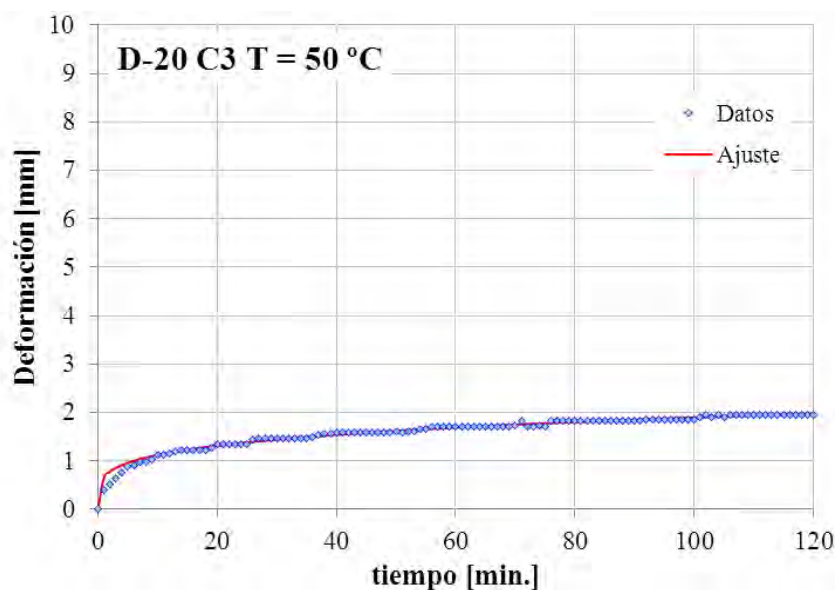
$R^2 = 0,98$



Mezcla (D-20)
Asfalto C2
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 520 N

Ajuste

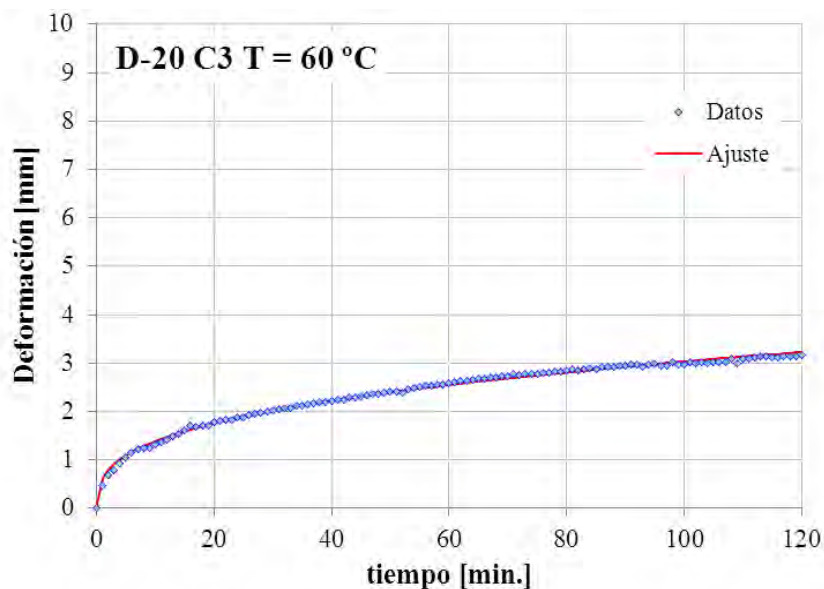
$a = 0,5015$; $b = 0,3238$
 $R^2 = 0,99$



Mezcla (D-20)
Asfalto C3
 $T_{\text{ensayo}} = 50 \text{ °C}$
Carga = 520 N

Ajuste

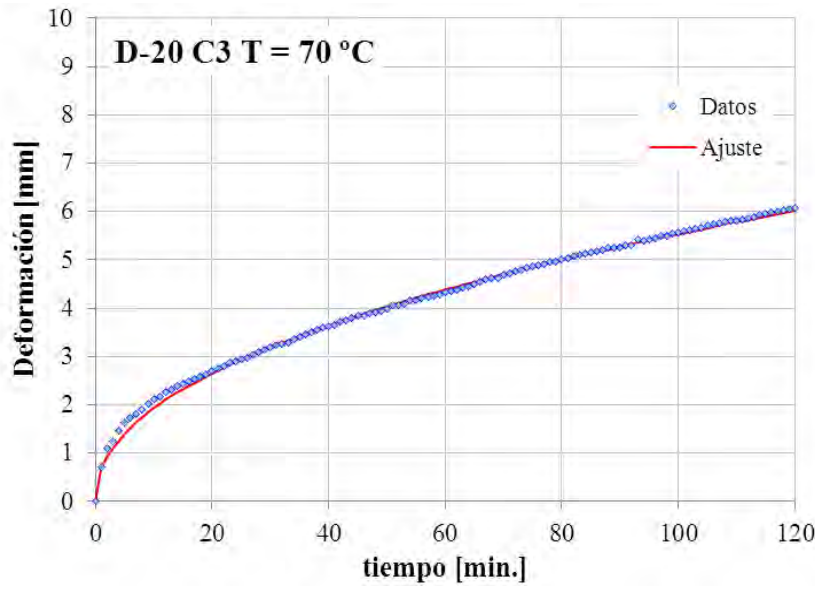
$a = 0,6671$; $b = 0,2269$
 $R^2 = 0,99$



Mezcla (D-20)
Asfalto C3
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,6376$; $b = 0,3386$
 $R^2 = 0,99$

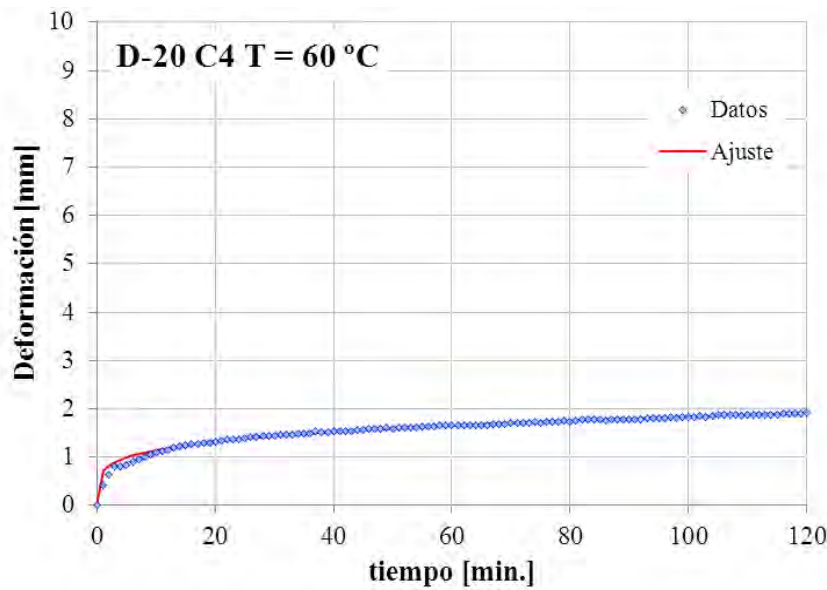


Mezcla (D-20)
Asfalto C3
 $T_{\text{ensayo}} = 70 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,6724$; $b = 0,4579$

$R^2 = 0,99$

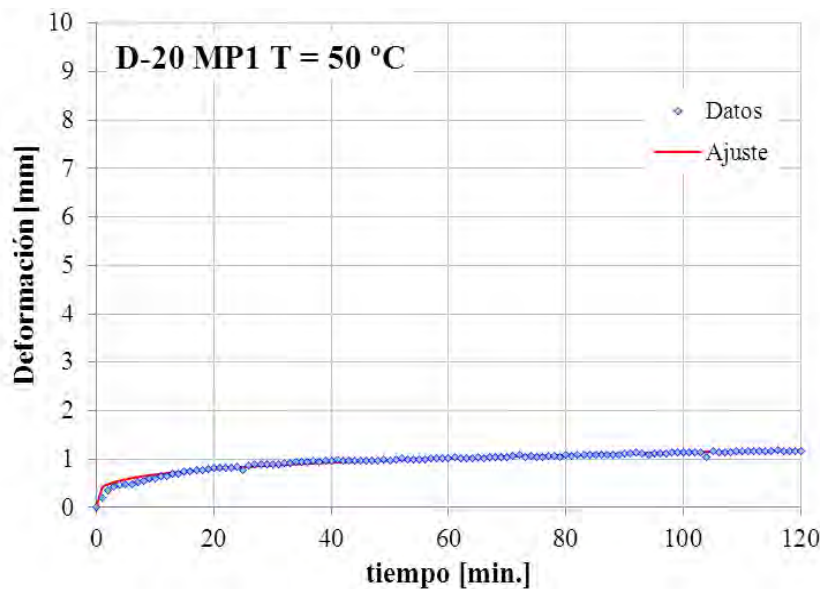


Mezcla (D-20)
Asfalto C4
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,7148$; $b = 0,2049$

$R^2 = 0,99$

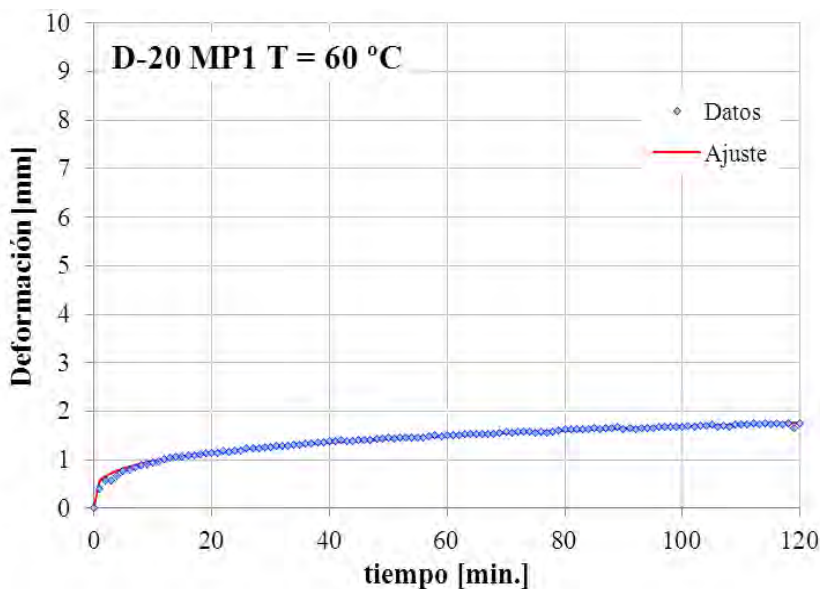


Mezcla (D-20)
Asfalto MP1
 $T_{\text{ensayo}} = 50 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,4084$; $b = 0,2227$

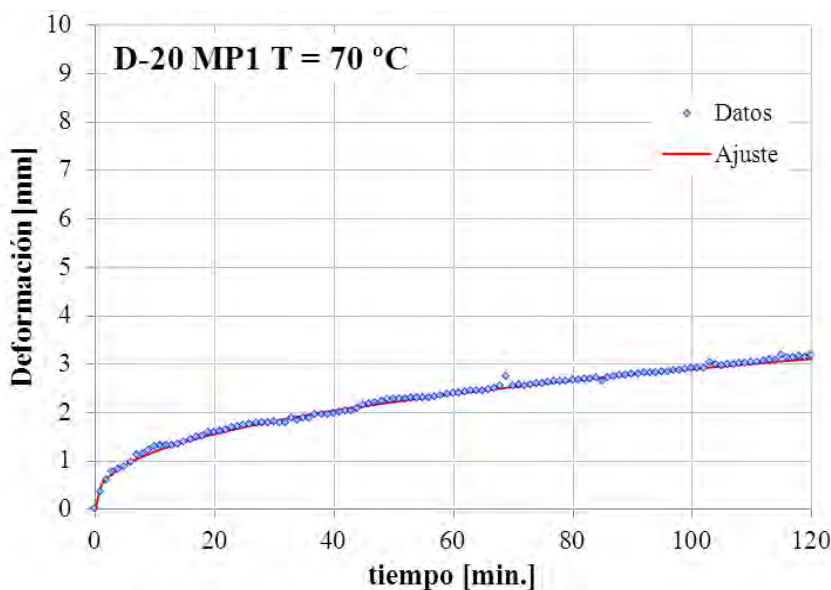
$R^2 = 0,96$



Mezcla (D-20)
Asfalto MP1
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 520 N

Ajuste

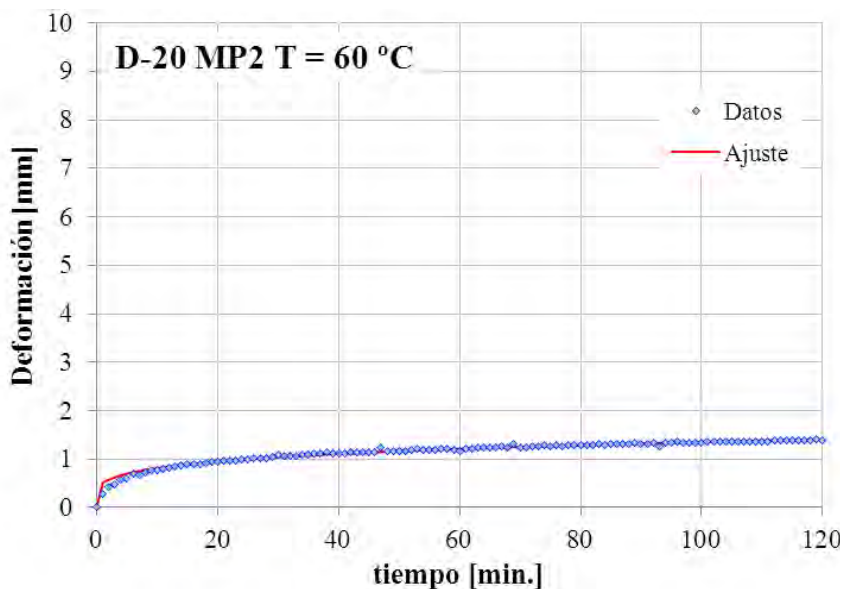
$a = 0,5580$, $b = 0,2408$
 $R^2 = 0,99$



Mezcla (D-20)
Asfalto MP1
 $T_{\text{ensayo}} = 70 \text{ °C}$
Carga = 520 N

Ajuste

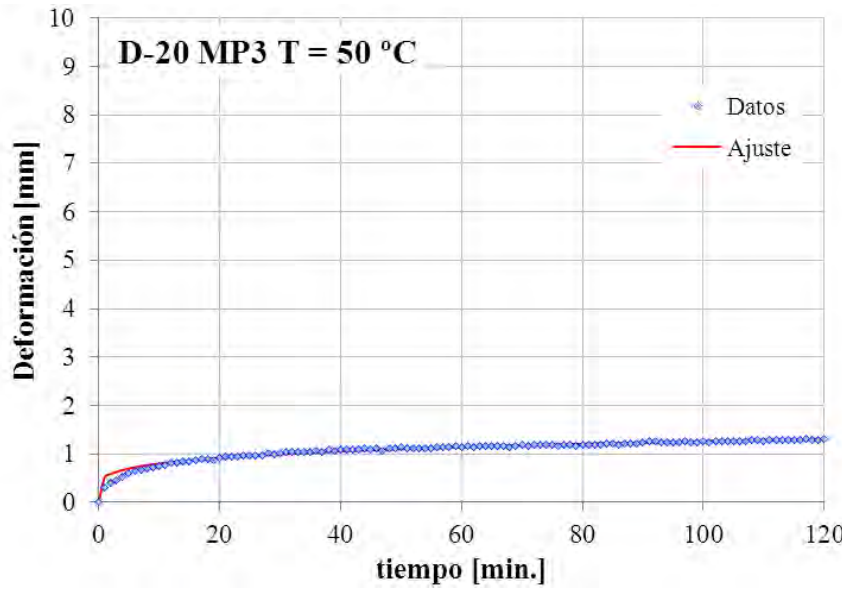
$a = 0,4953$; $b = 0,3840$
 $R^2 = 0,99$



Mezcla (D-20)
Asfalto MP2
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga: 520 N

Ajuste

$a = 0,4911$; $b = 0,2202$
 $R^2 = 0,99$

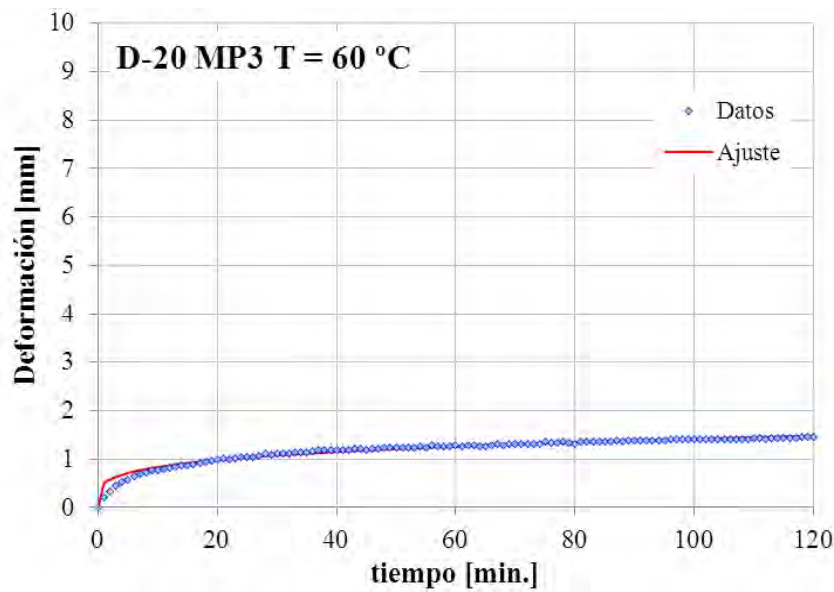


Mezcla (D-20)
 Asfalto MP3
 $T_{\text{ensayo}} = 50 \text{ °C}$
 Carga = 520 N

Ajuste

$a = 0,5096$; $b = 0,1970$

$R^2 = 0,98$

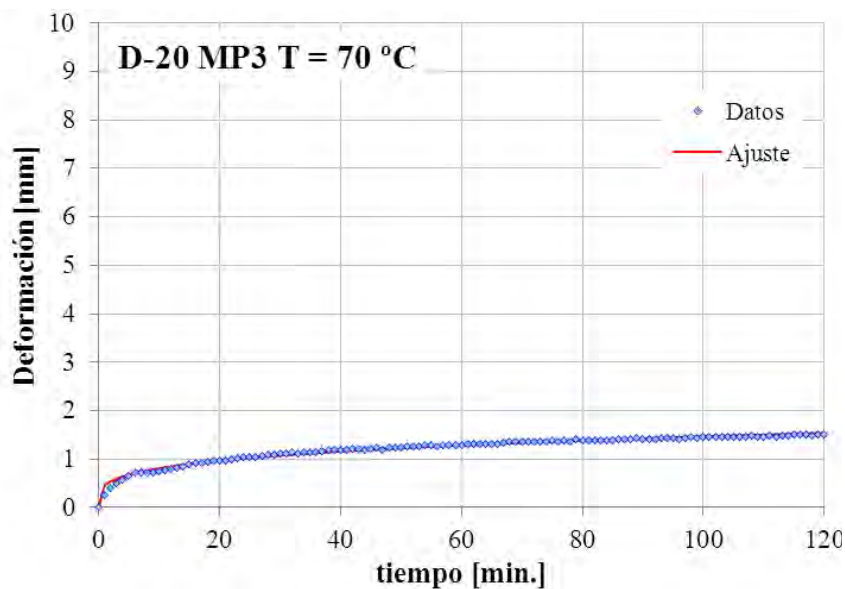


Mezcla (D-20)
 Asfalto MP3
 $T_{\text{ensayo}} = 60 \text{ °C}$
 Carga = 520 N

Ajuste

$a = 0,4933$; $b = 0,2295$

$R^2 = 0,98$

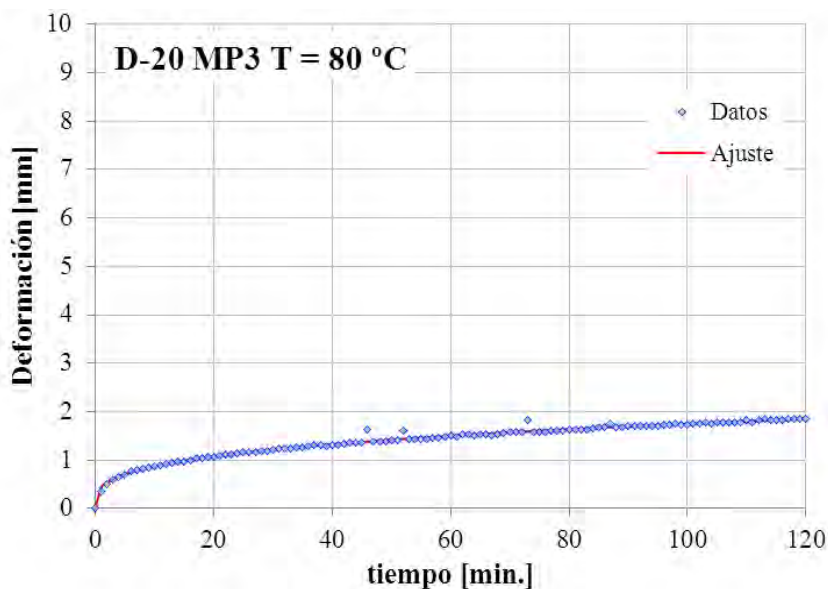


Mezcla (D-20)
 Asfalto MP3
 $T_{\text{ensayo}} = 70 \text{ °C}$
 Carga = 520 N

Ajuste

$a = 0,4478$; $b = 0,2576$

$R^2 = 0,98$

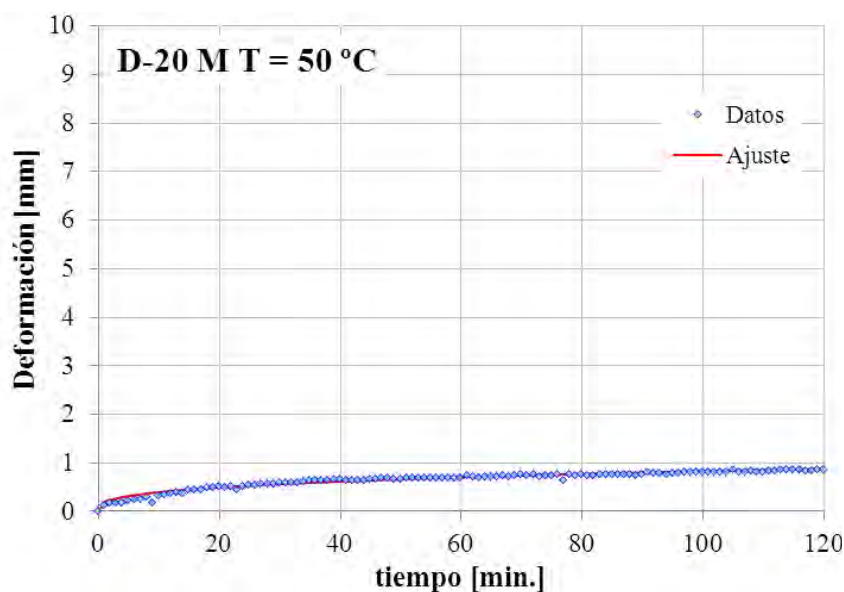


Mezcla (D-20)
Asfalto MP3
 $T_{\text{ensayo}} = 80 \text{ }^{\circ}\text{C}$
Carga = 520 N

Ajuste

$a = 0,4362, b = 0,3018$

$R^2 = 0,98$

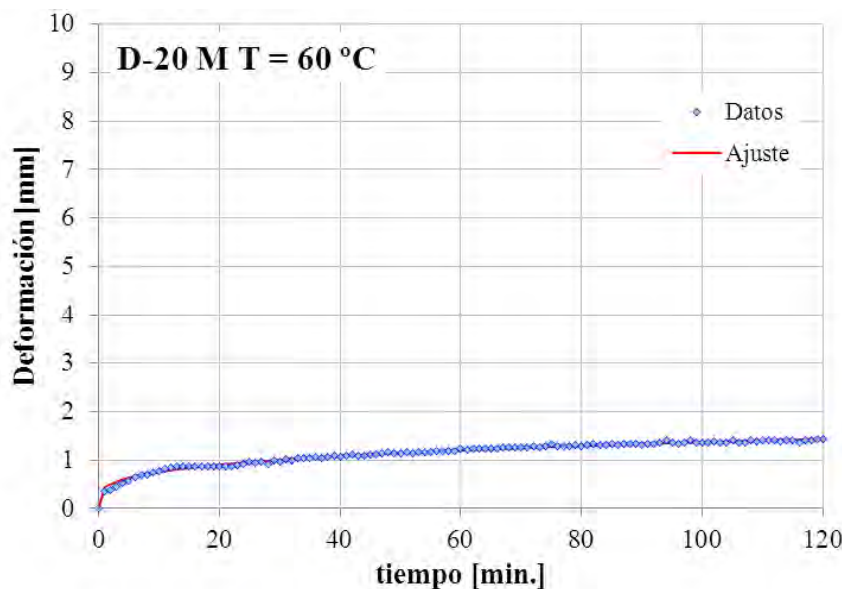


Mezcla (D-20)
Asfalto M
 $T_{\text{ensayo}} = 50 \text{ }^{\circ}\text{C}$
Carga = 520 N

Ajuste

$a = 0,1900; b = 0,3194$

$R^2 = 0,95$

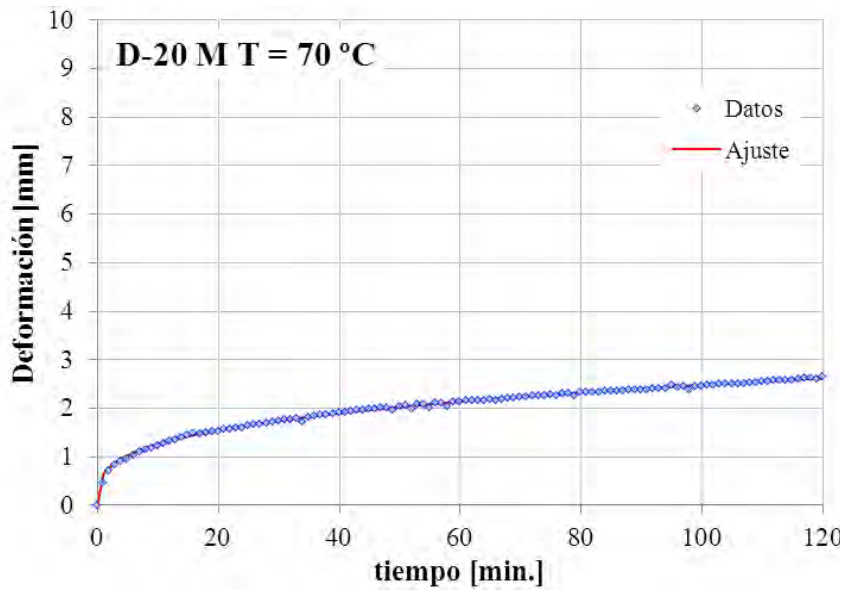


Mezcla (D-20)
Asfalto M
 $T_{\text{ensayo}} = 60 \text{ }^{\circ}\text{C}$
Carga: 520 N

Ajuste

$a = 0,4194; b = 0,2571$

$R^2 = 0,98$

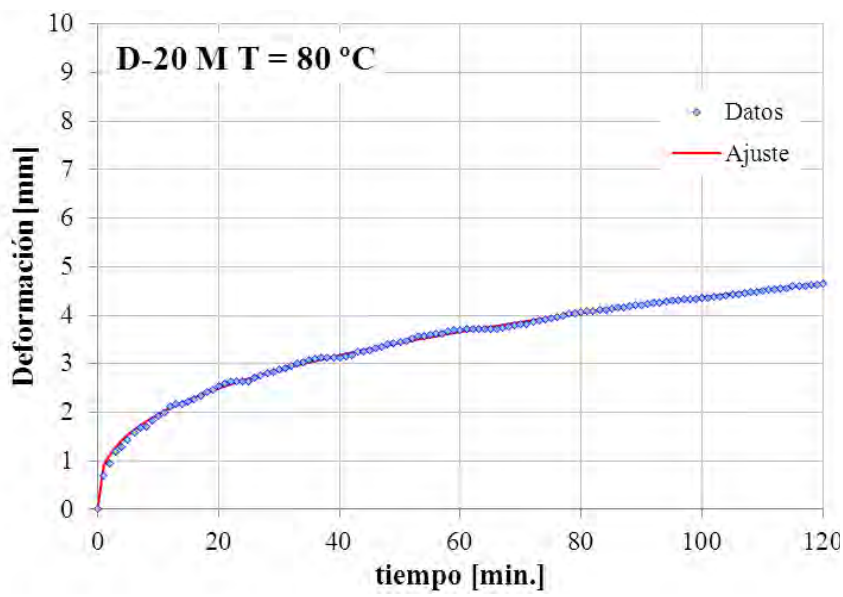


Mezcla (D-20)
Asfalto M
 $T_{\text{ensayo}} = 70 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,6456$, $b = 0,2926$

$R^2 = 0,99$



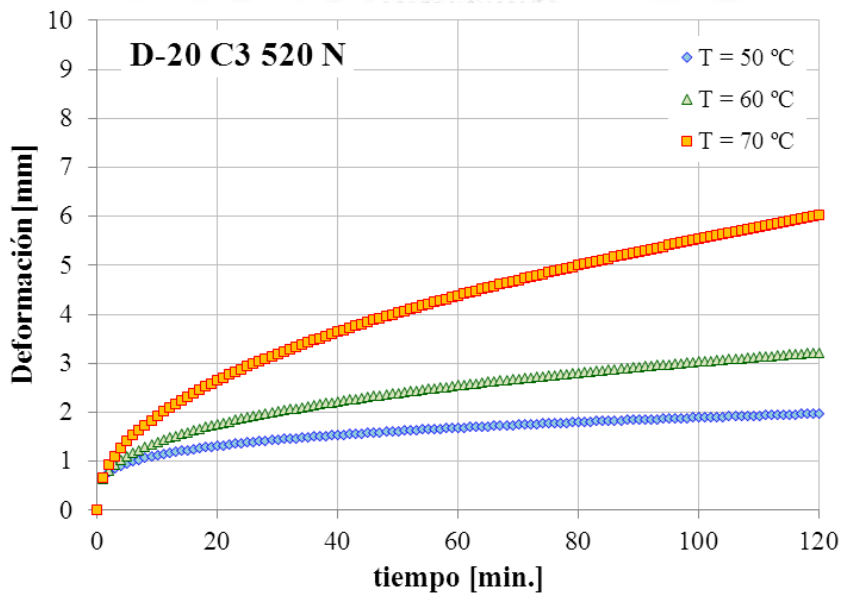
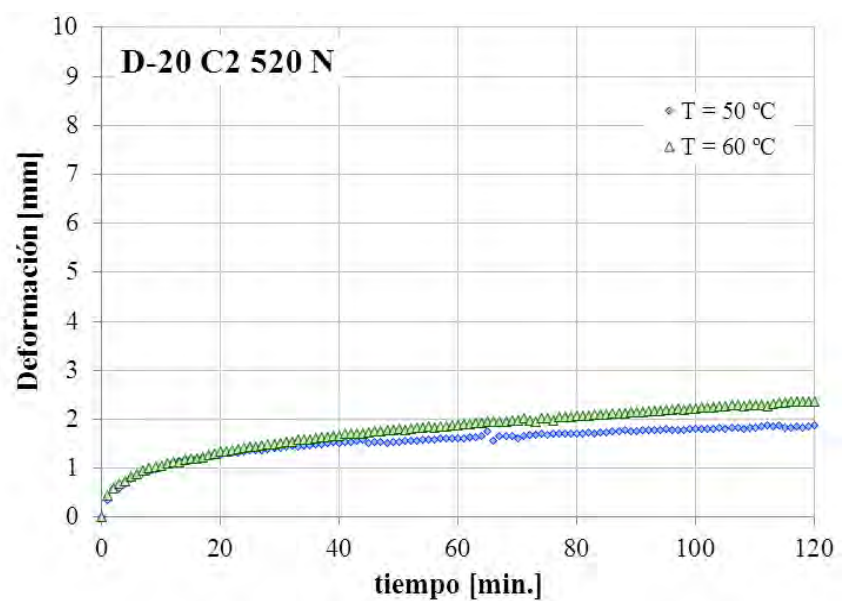
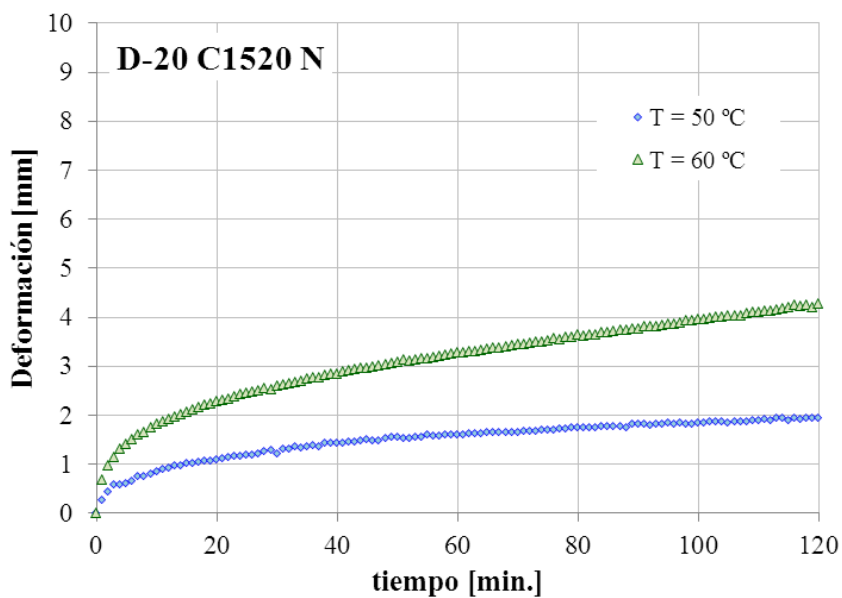
Mezcla (D-20)
Asfalto M
 $T_{\text{ensayo}} = 80 \text{ °C}$
Carga = 520 N

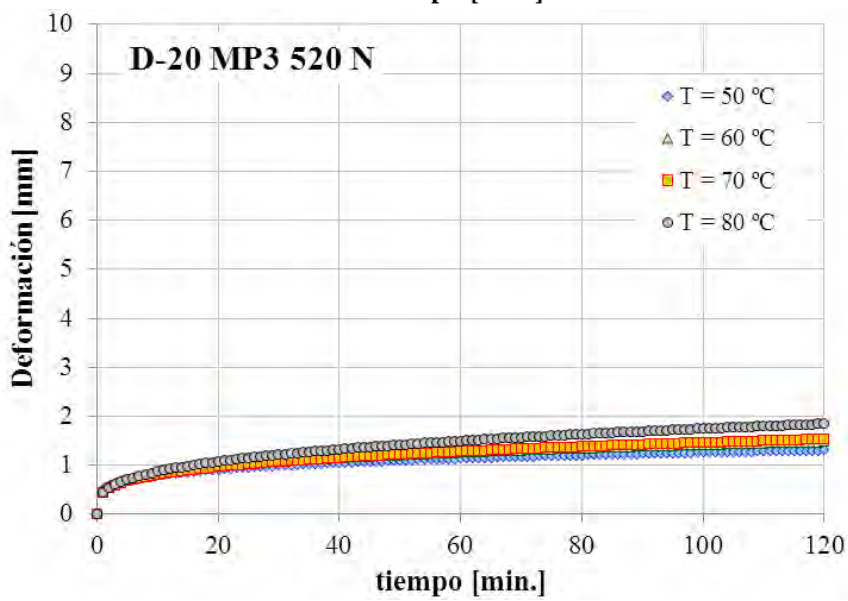
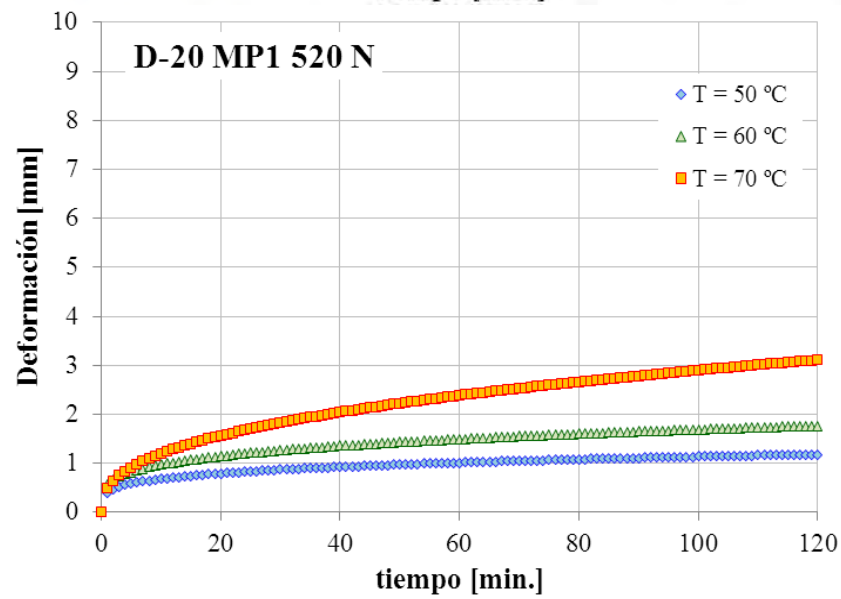
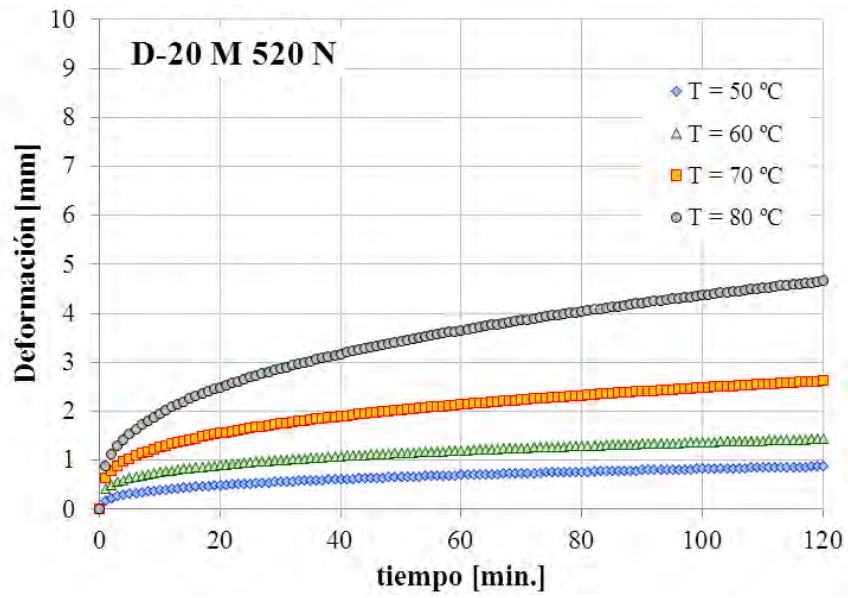
Ajuste

$a = 0,8770$; $b = 0,3488$

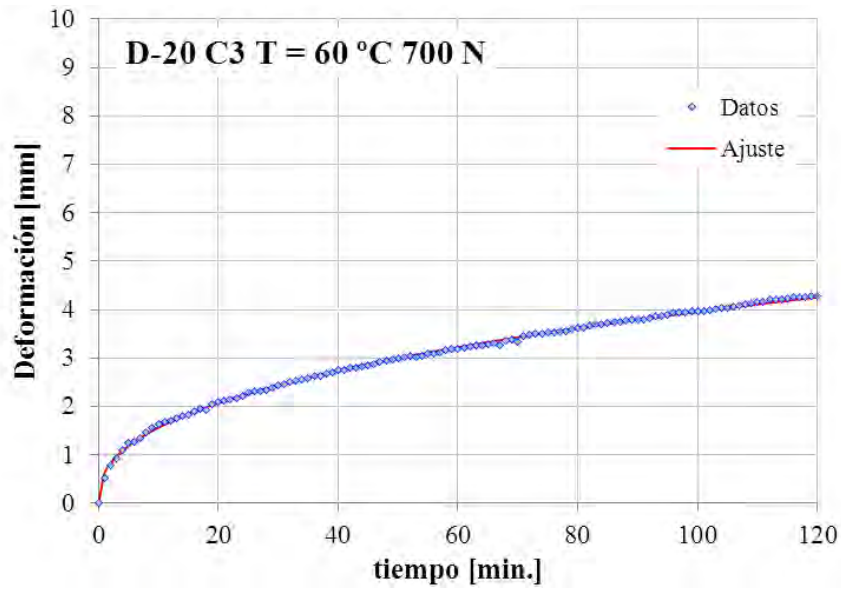
$R^2 = 0,99$

Curvas comparativas a distintas temperaturas





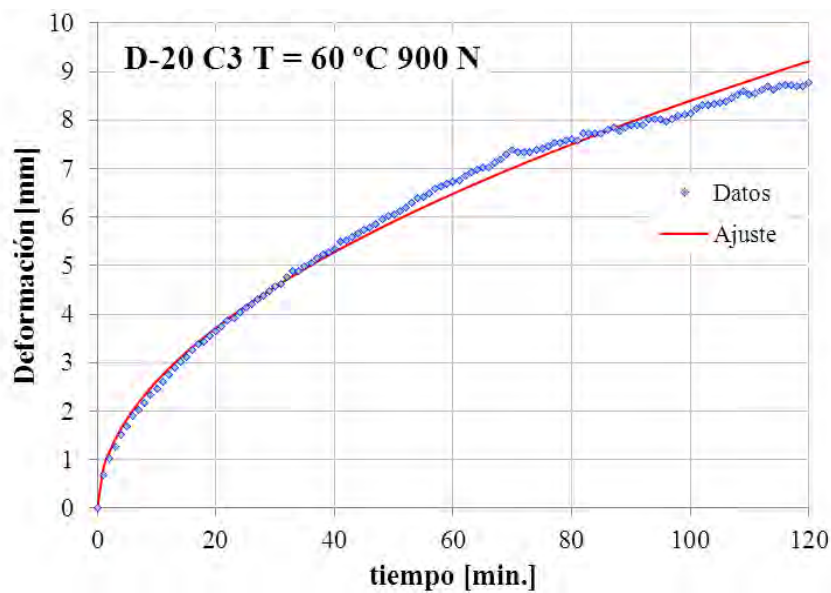
Mezcla Densa (D-20)
Ensayos a diferentes niveles de carga



Mezcla (D-20)
 Asfalto C3
 $T_{\text{ensayo}} = 60 \text{ °C}$
 Carga = 700 N

Ajuste

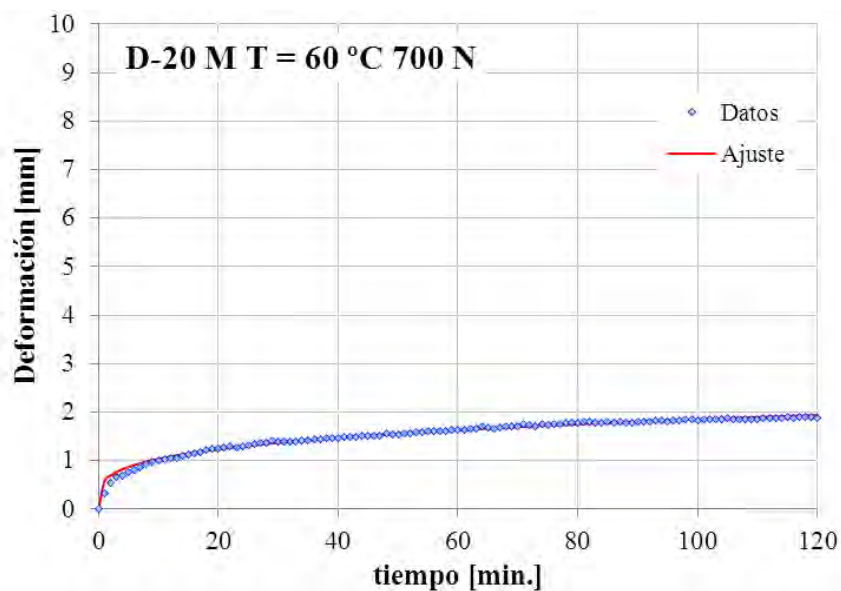
$a = 0,6214$; $b = 0,4020$
 $R^2 = 0,99$



Mezcla (D-20)
 Asfalto C3
 $T_{\text{ensayo}} = 60 \text{ °C}$
 Carga = 900 N

Ajuste

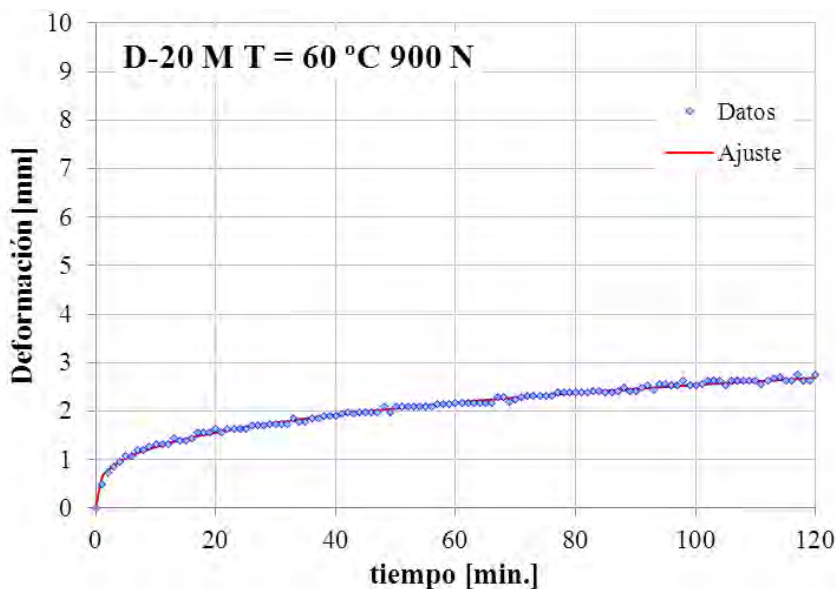
$a = 0,8156$; $b = 0,5064$
 $R^2 = 0,99$



Mezcla (D-20)
 Asfalto M
 $T_{\text{ensayo}} = 60 \text{ °C}$
 Carga = 700 N

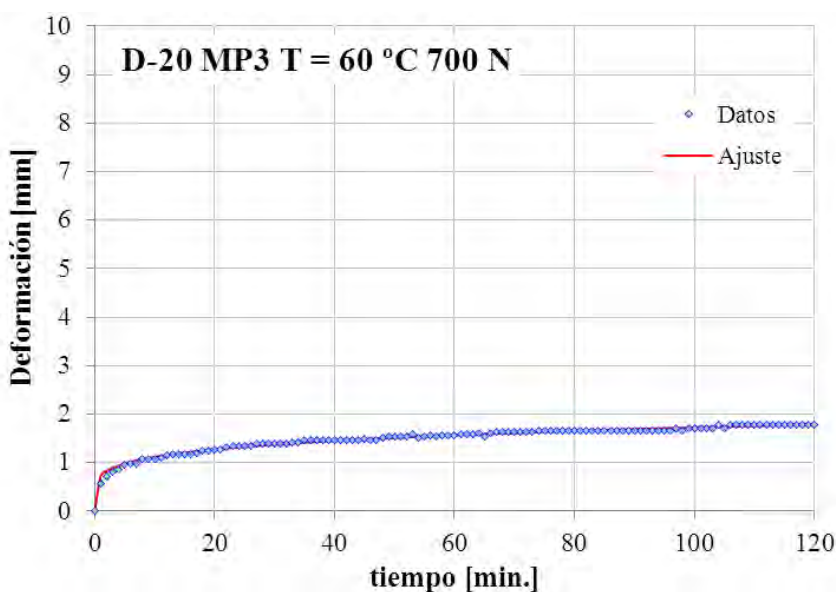
Ajuste

$a = 0,5819$; $b = 0,2516$
 $R^2 = 0,99$



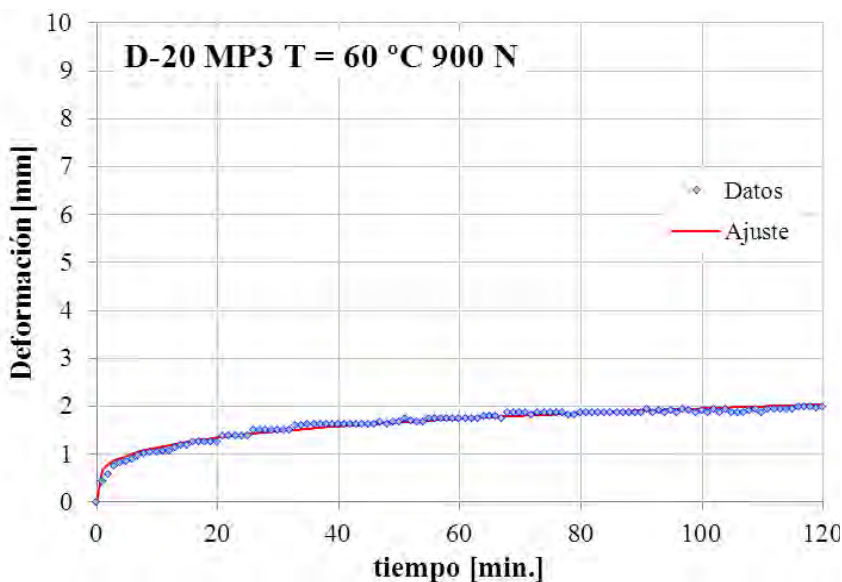
Mezcla (D-20)
Asfalto M
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 900 N

Ajuste
 $a = 0,6299, b = 0,3029$
 $R^2 = 0,99$



Mezcla (D-20)
Asfalto MP3
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 700 N

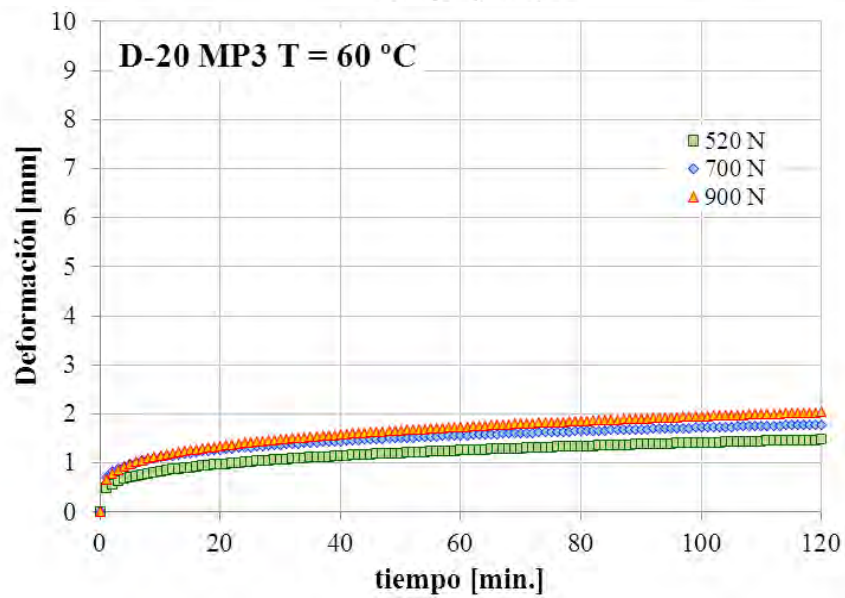
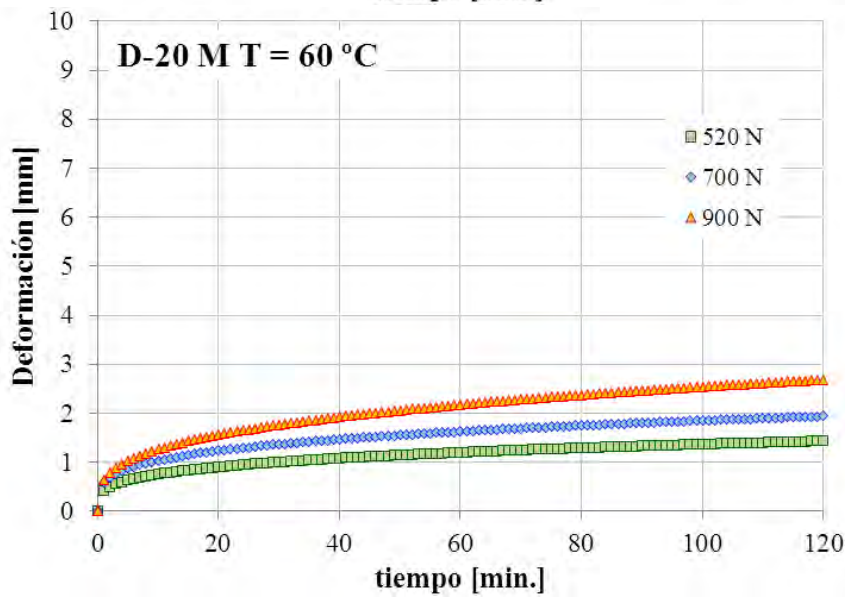
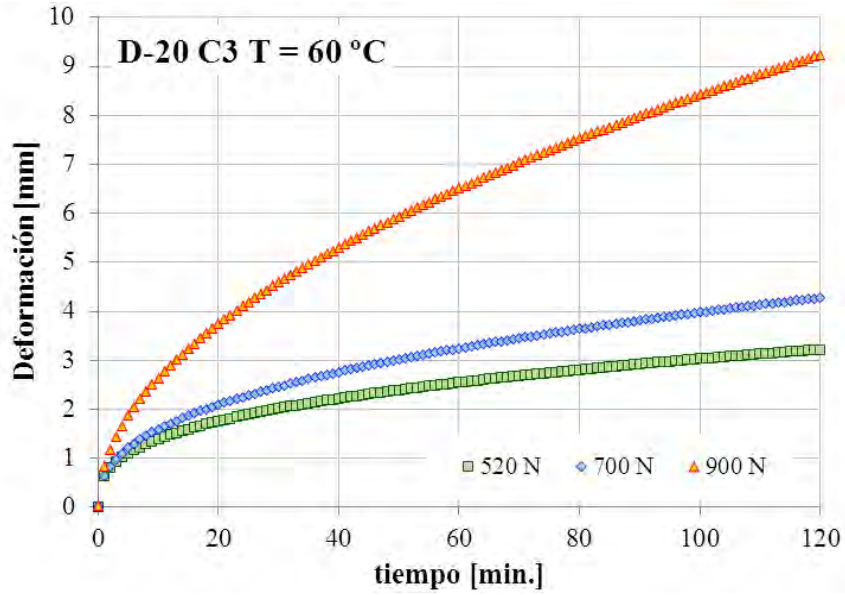
Ajuste
 $a = 0,7240; b = 0,1887$
 $R^2 = 0,98$



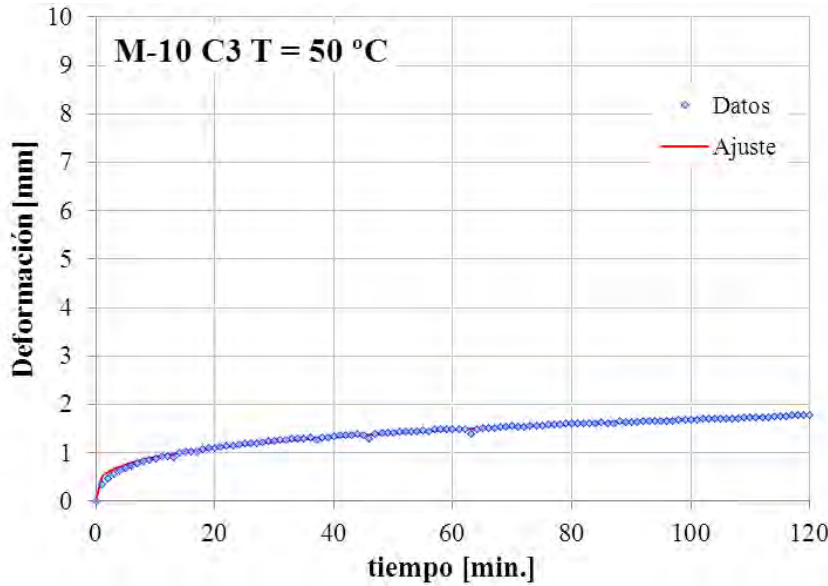
Mezcla (D-20)
Asfalto MP3
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 900 N

Ajuste
 $a = 0,6747; b = 0,2310$
 $R^2 = 0,95$

Curvas comparativas diferentes niveles de carga



Microaglomerado (M-10)
Ensayos a distintas temperaturas



Mezcla (M-10)

Asfalto C3

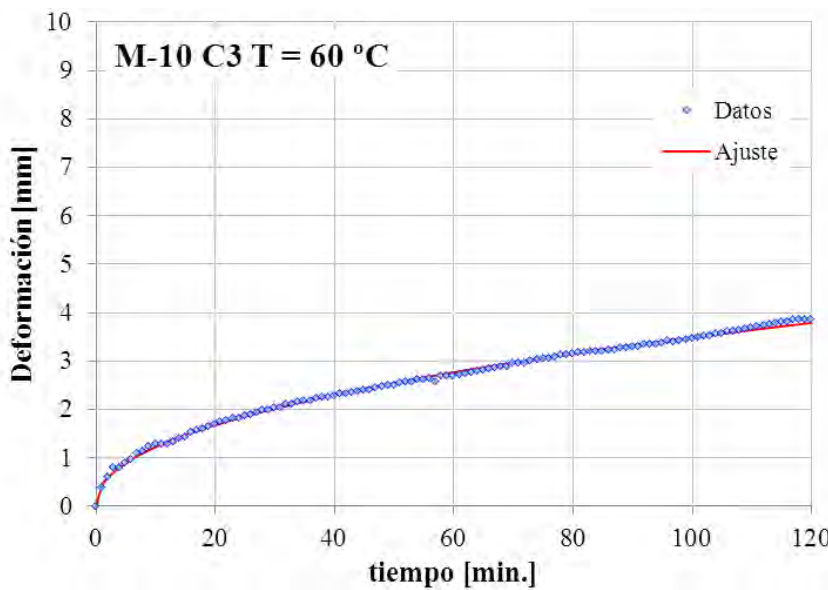
T_{ensayo} = 50 °C

Carga = 520 N

Ajuste

a = 0,4948; b = 0,2674

R² = 0,99



Mezcla (M-10)

Asfalto C3

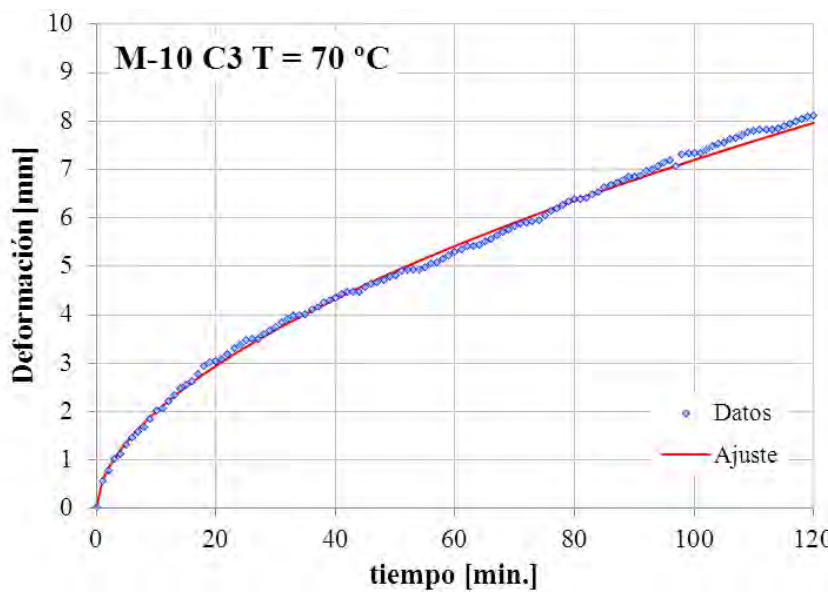
T_{ensayo} = 60 °C

Carga = 520 N

Ajuste

a = 0,4324; b = 0,4534

R² = 0,99



Mezcla (M-10)

Asfalto C3

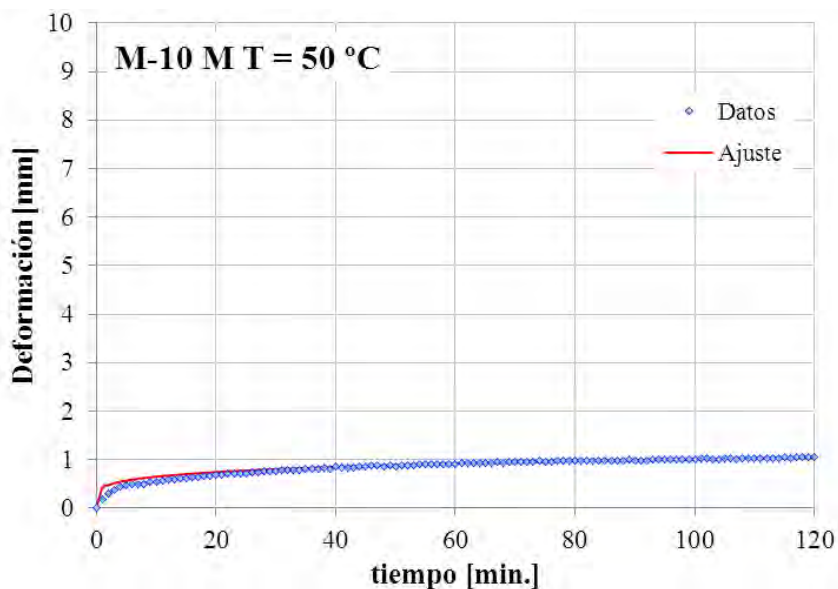
T_{ensayo} = 70 °C

Carga = 520 N

Ajuste

a = 0,5590; b = 0,5549

R² = 0,99



Mezcla (M-10)

Asfalto M

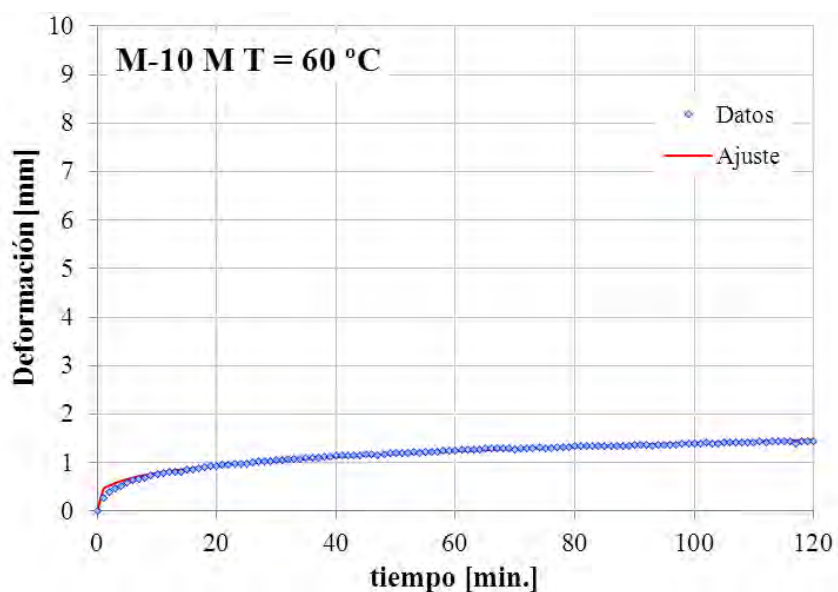
T_{ensayo} = 50 °C

Carga = 520 N

Ajuste

a = 0,4190; b = 0,1916

R² = 0,98



Mezcla (M-10)

Asfalto M

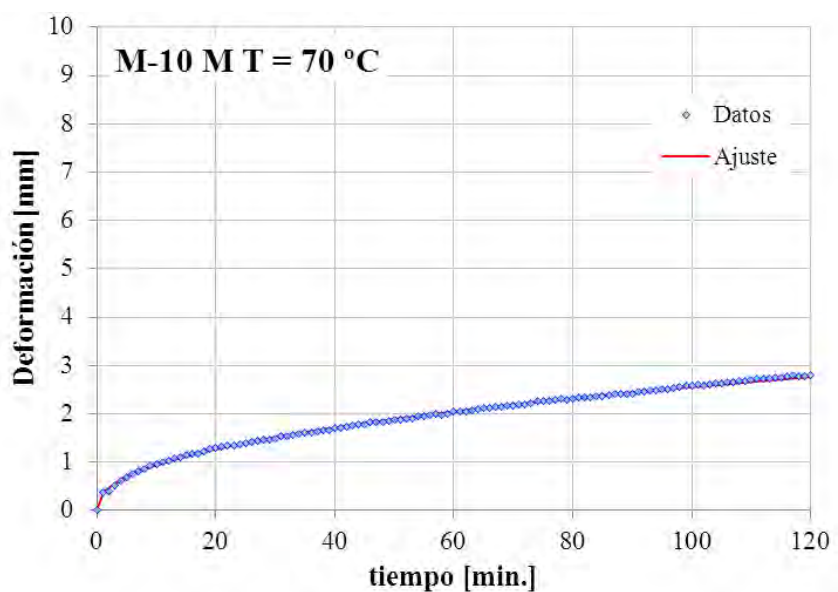
T_{ensayo} = 60 °C

Carga = 520 N

Ajuste

a = 0,4409; b = 0,2516

R² = 0,99



Mezcla (M-10)

Asfalto M

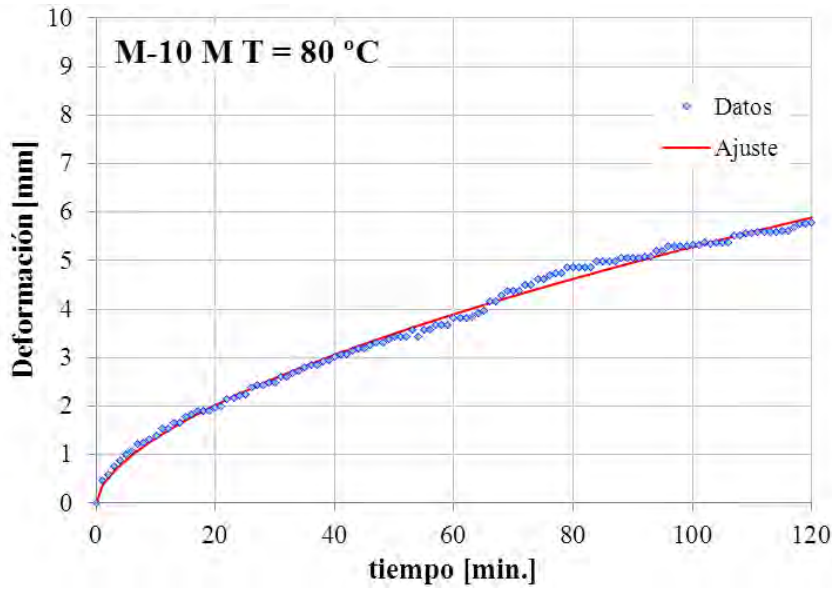
T_{ensayo} = 70 °C

Carga = 520 N

Ajuste

a = 0,3455; b = 0,4345

R² = 0,99

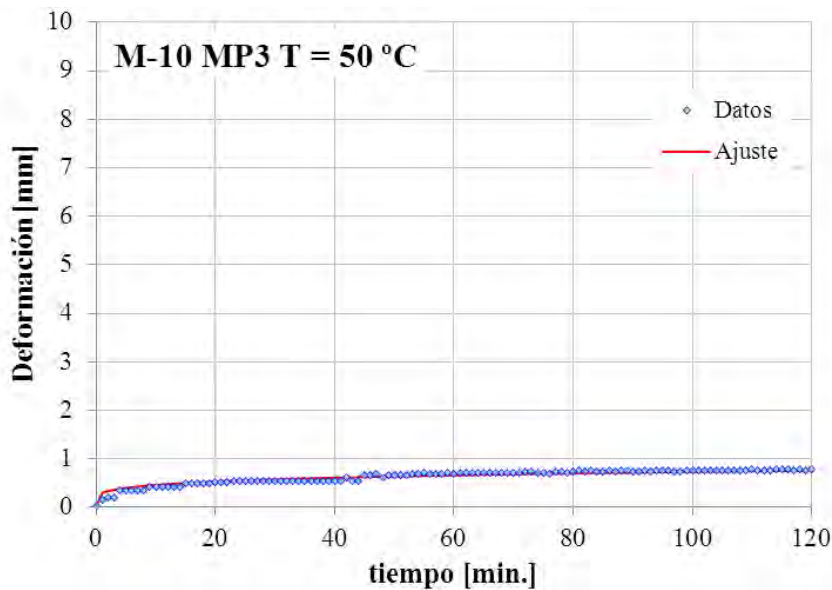


Mezcla (M-10)
Asfalto M
 $T_{\text{ensayo}} = 80 \text{ °C}$
Carga = 520 N

Ajuste

a = 0,3397; b = 0,5959

$R^2 = 0,99$

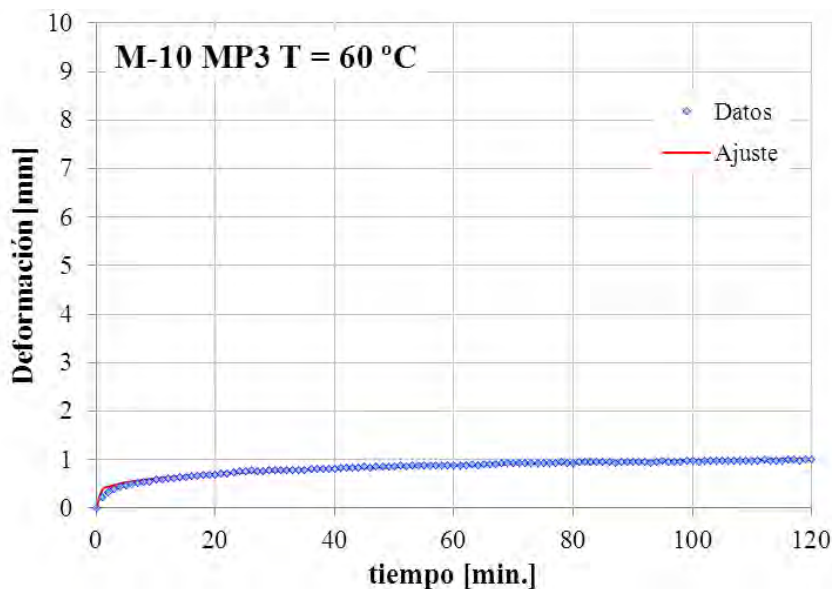


Mezcla (M-10)
Asfalto MP3
 $T_{\text{ensayo}} = 50 \text{ °C}$
Carga = 520 N

Ajuste

a = 0,2902; b = 0,2021

$R^2 = 0,70$

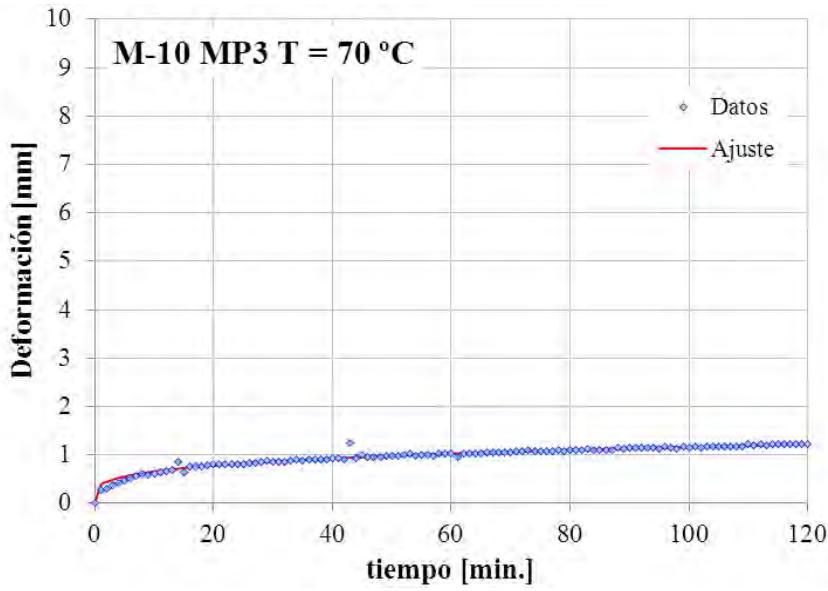


Mezcla (M-10)
Asfalto MP3
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 520 N

Ajuste

a = 0,3817; b = 0,2048

$R^2 = 0,98$

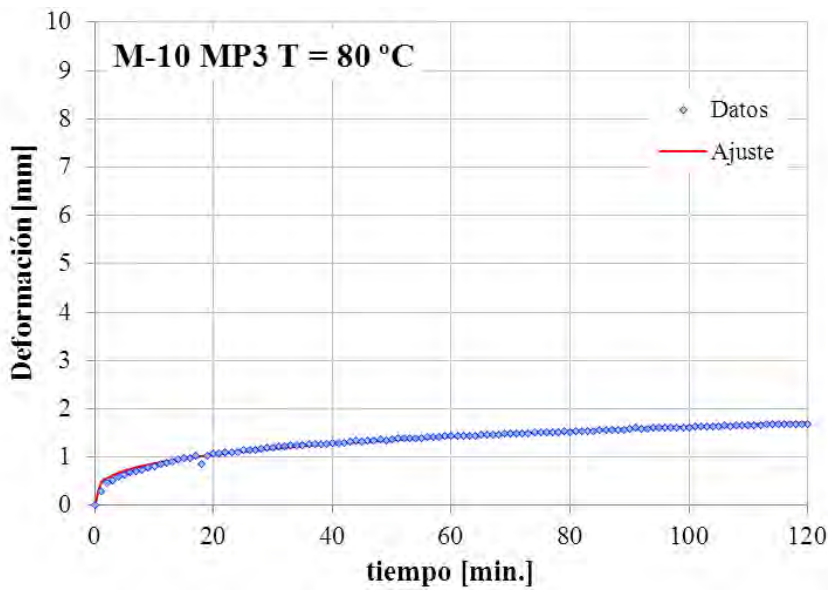


Mezcla (M-10)
Asfalto MP3
 $T_{\text{ensayo}} = 70 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,3731$; $b = 0,2473$

$R^2 = 0,95$



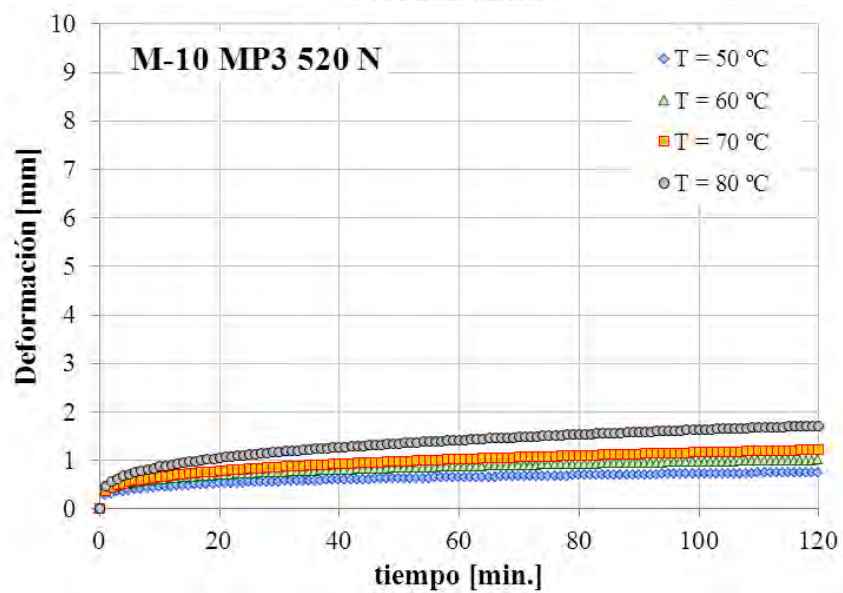
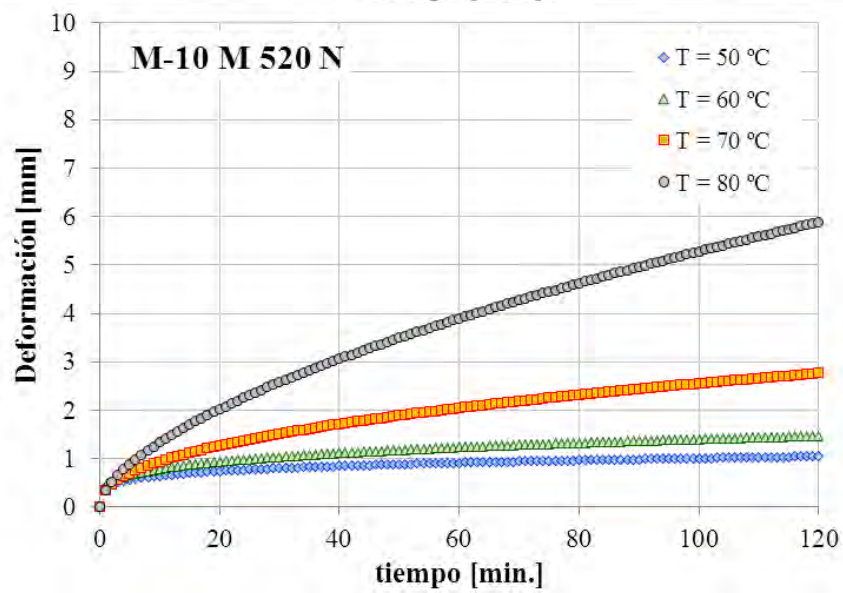
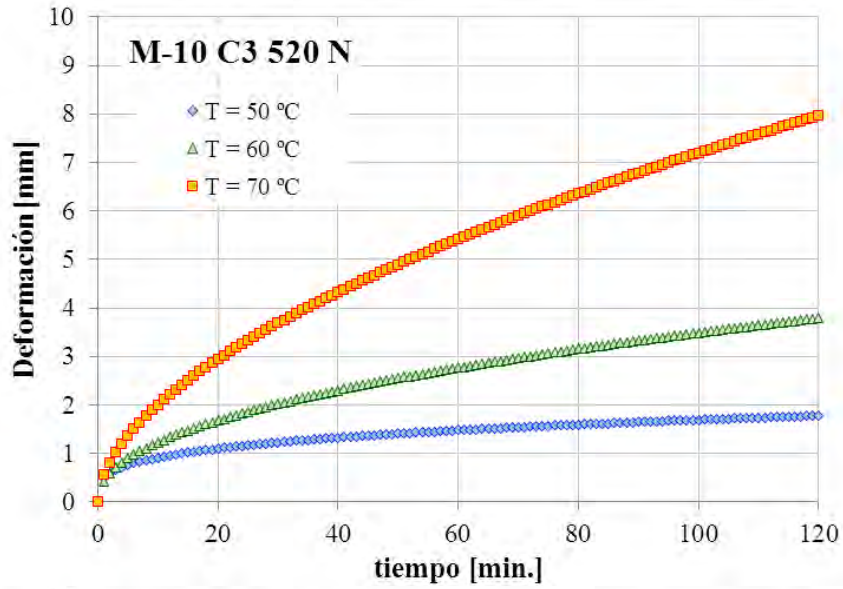
Mezcla (M-10)
Asfalto MP3
 $T_{\text{ensayo}} = 80 \text{ °C}$
Carga = 520 N

Ajuste

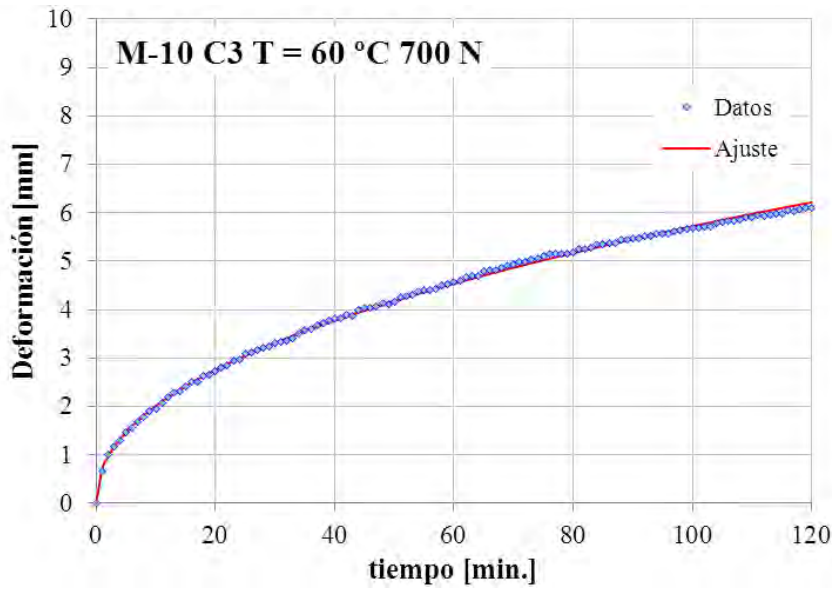
$a = 0,4643$; $b = 0,2734$

$R^2 = 0,98$

Curvas comparativas a distintas temperaturas



Microaglomerado (M-10)
Ensayos a diferentes niveles de carga

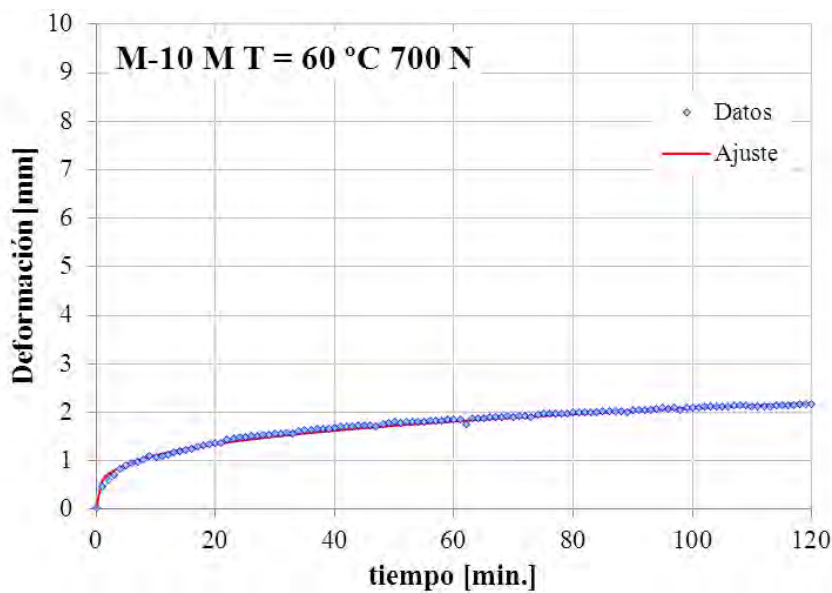


Mezcla (M-10)
Asfalto C3
T_{ensayo} = 60 °C
Carga = 700 N

Ajuste

a = 0,7074; b = 0,4540

R² = 0,99

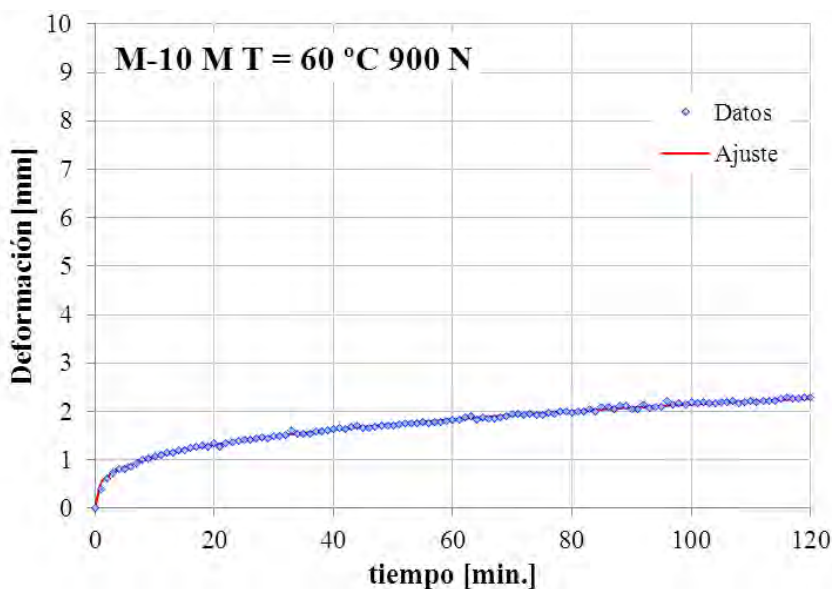


Mezcla (M-10)
Asfalto M
T_{ensayo} = 60 °C
Carga = 700 N

Ajuste

a = 0,5961; b = 0,2719

R² = 0,99

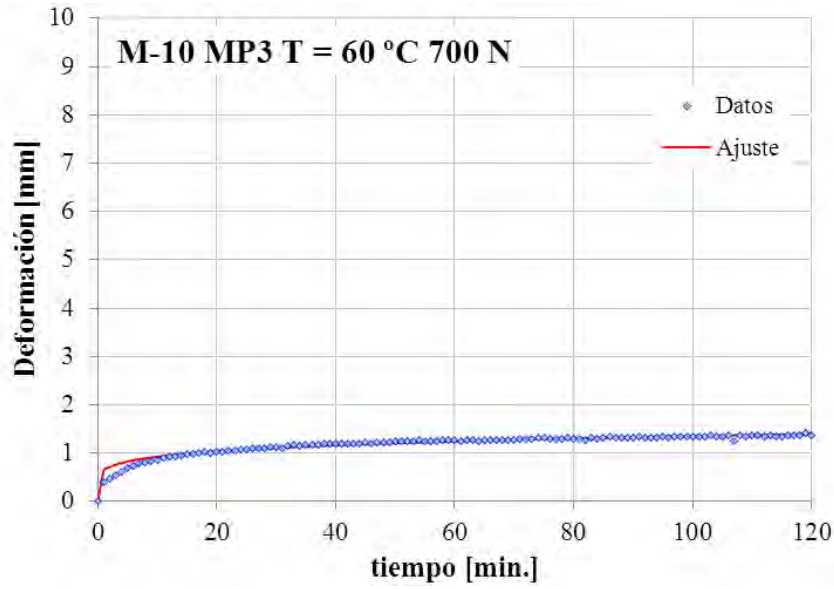


Mezcla (M-10)
Asfalto M
T_{ensayo} = 60 °C
Carga = 900 N

Ajuste

a = 0,5268; b = 0,3052

R² = 0,99

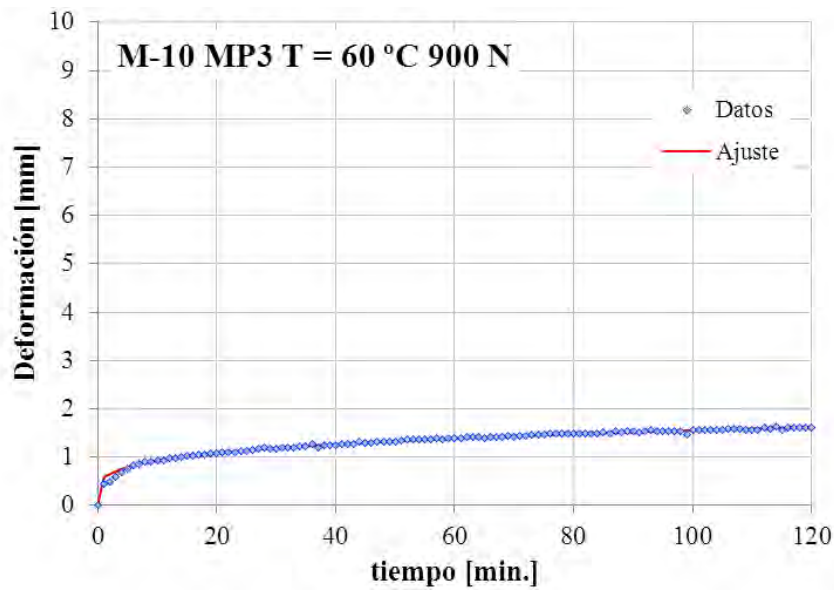


Mezcla (M-10)
Asfalto MP3
T_{ensayo} = 60 °C
Carga = 700 N

Ajuste

a = 0,6363; b = 0,1641

R² = 0,96



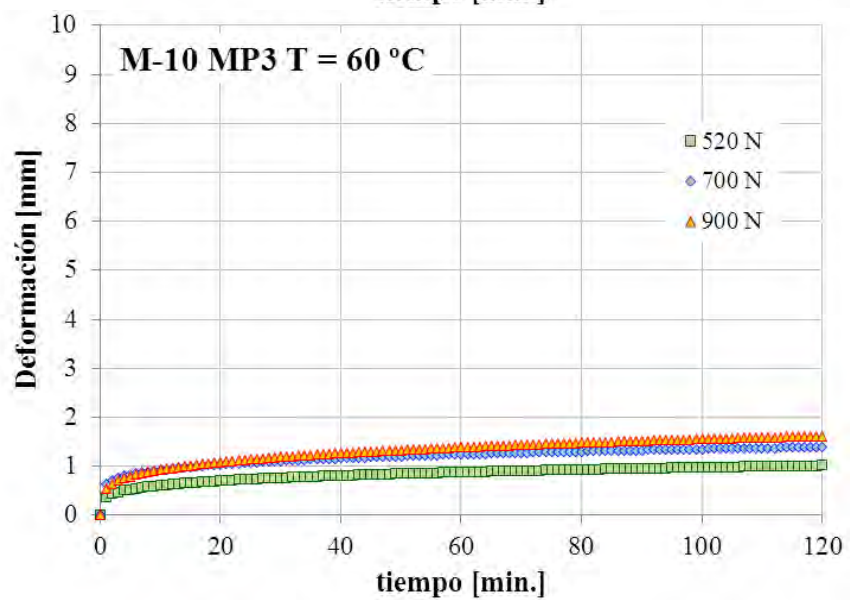
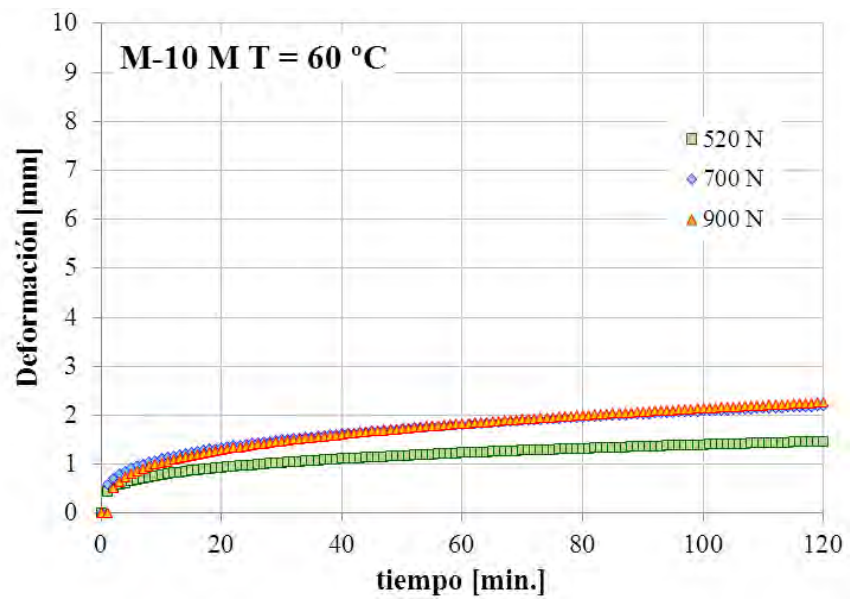
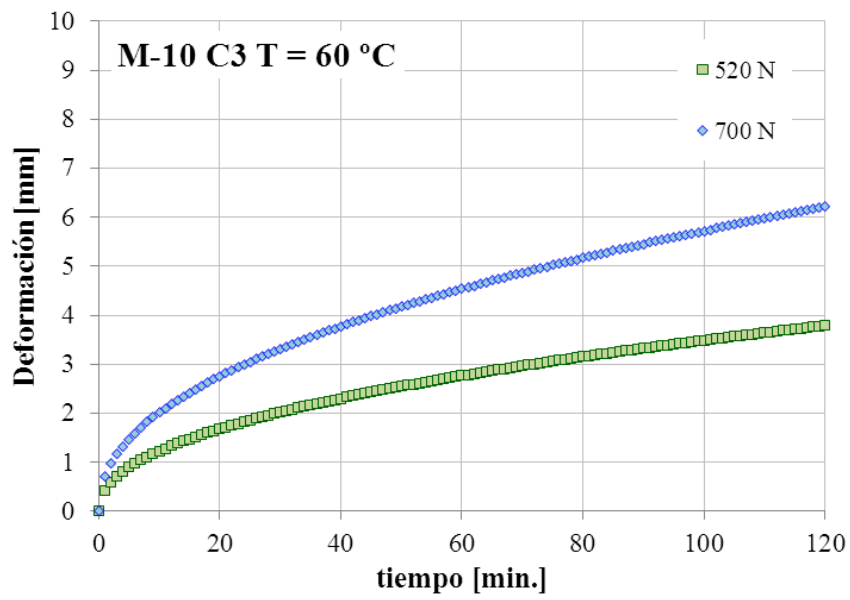
Mezcla (M-10)
Asfalto MP3
T_{ensayo} = 60 °C
Carga = 900 N

Ajuste

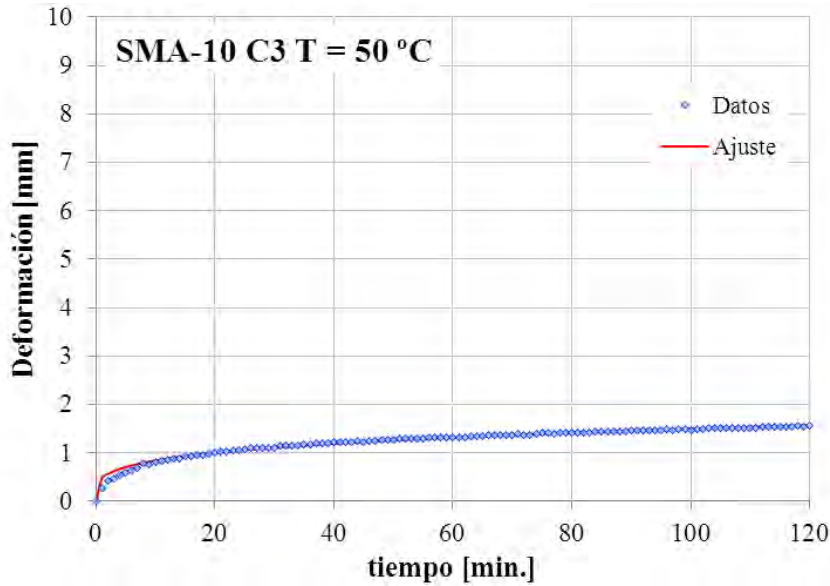
a = 0,5538; b = 0,2243

R² = 0,99

Curvas comparativas diferentes niveles de carga



Stone Mastic Asphalt (SMA-10)
Ensayos a distintas temperaturas



Mezcla (SMA-10)

Asfalto C3

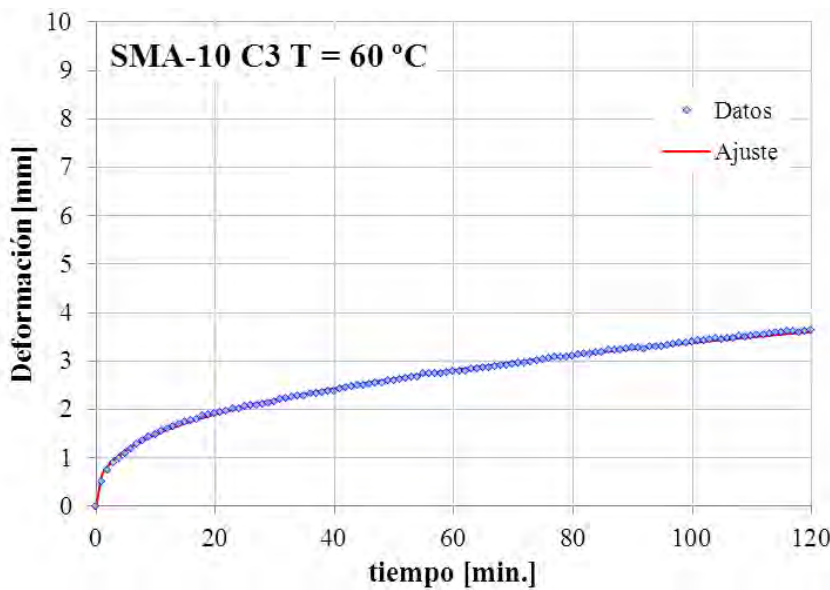
T_{ensayo} = 50 °C

Carga = 520 N

Ajuste

a = 0,4751; b = 0,2496

R² = 0,99



Mezcla (SMA-10)

Asfalto C3

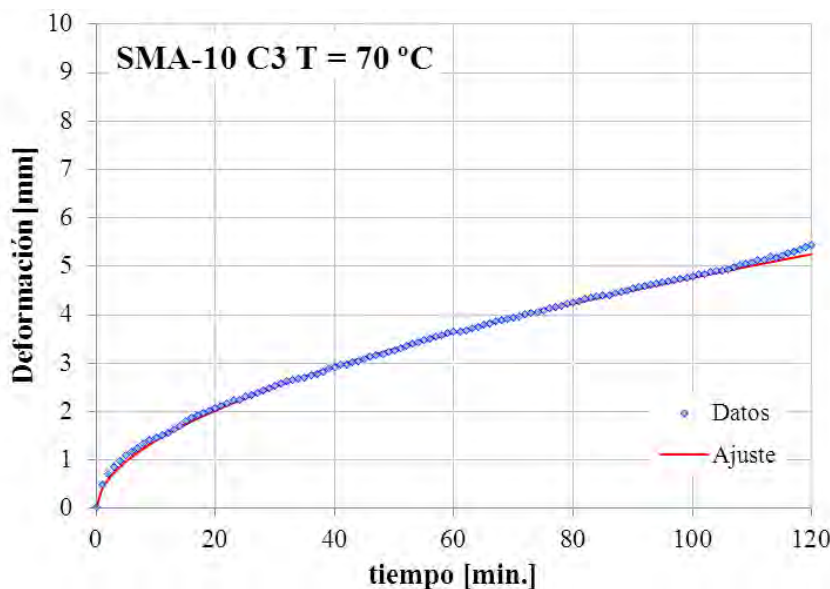
T_{ensayo} = 60 °C

Carga = 520 N

Ajuste

a = 0,6552; b = 0,3562

R² = 0,99



Mezcla (SMA-10)

Asfalto C3

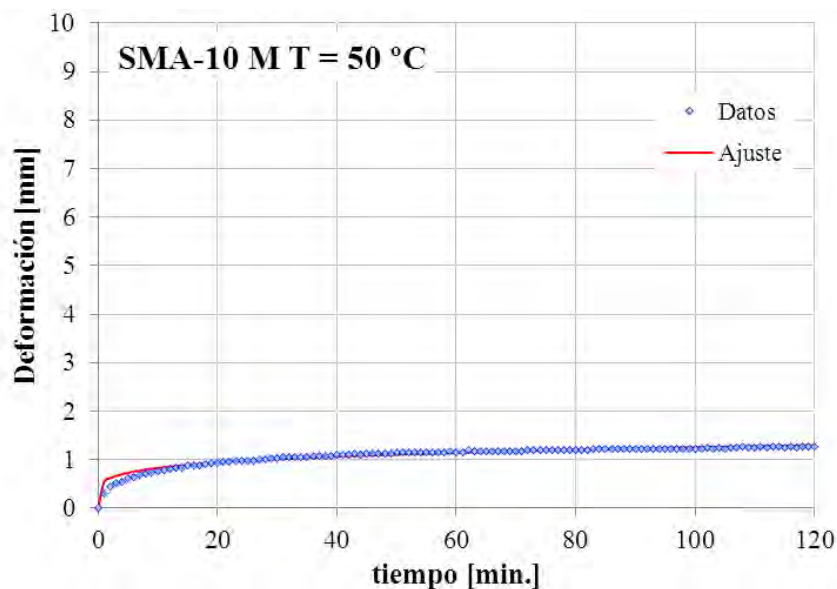
T_{ensayo} = 70 °C

Carga = 520 N

Ajuste

a = 0,4122; b = 0,5316

R² = 0,99



Mezcla (SMA-10)

Asfalto M

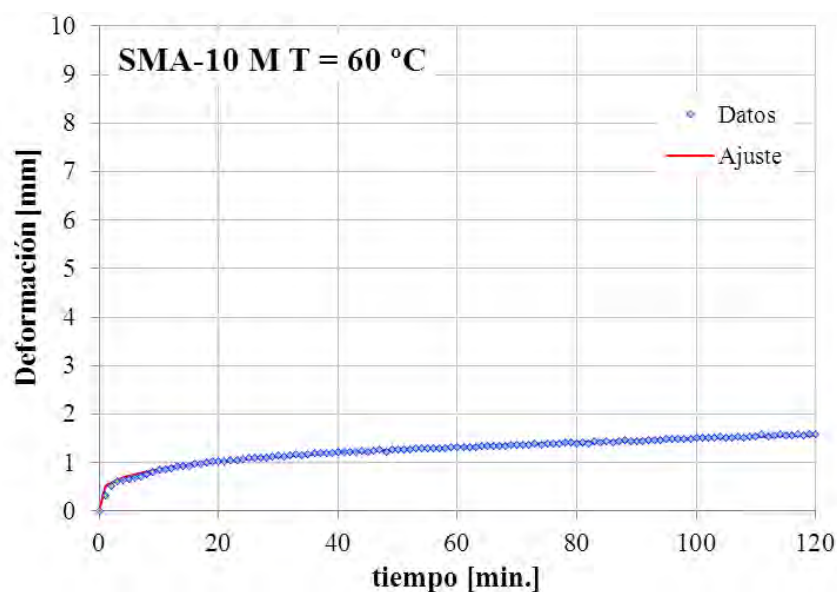
T_{ensayo} = 50 °C

Carga = 520 N

Ajuste

a = 0,5484; b = 0,1797

R² = 0,96



Mezcla (SMA-10)

Asfalto M

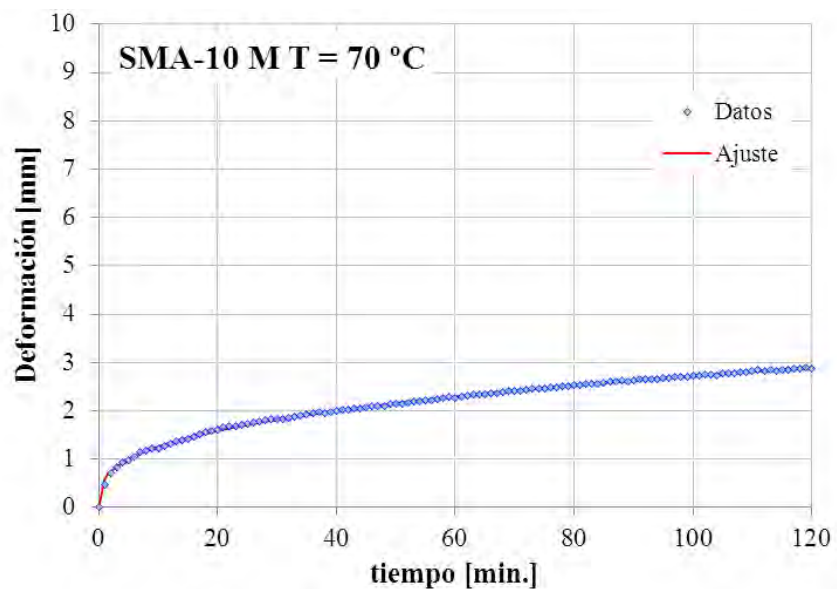
T_{ensayo} = 60 °C

Carga = 520 N

Ajuste

a = 0,4959; b = 0,2402

R² = 0,99



Mezcla (SMA-10)

Asfalto M

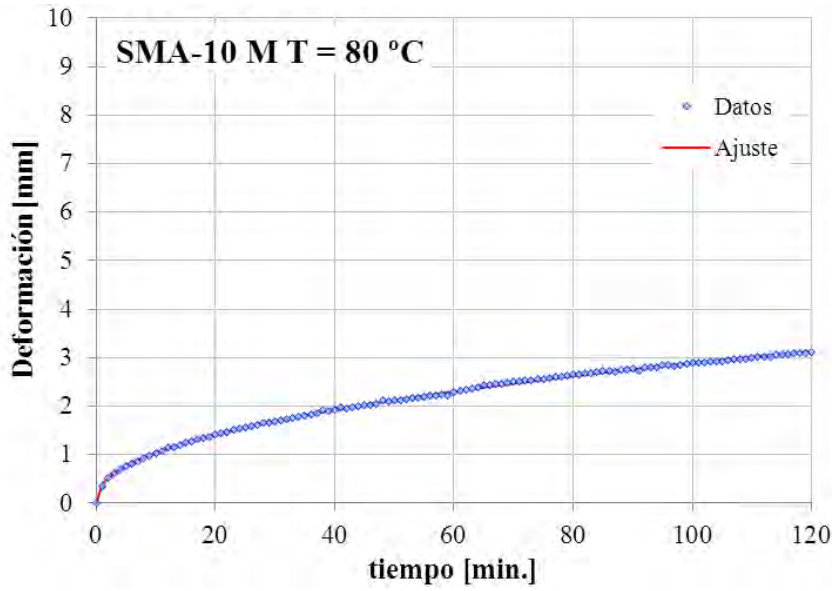
T_{ensayo} = 70 °C

Carga = 520 N

Ajuste

a = 0,5828; b = 0,3346

R² = 0,99

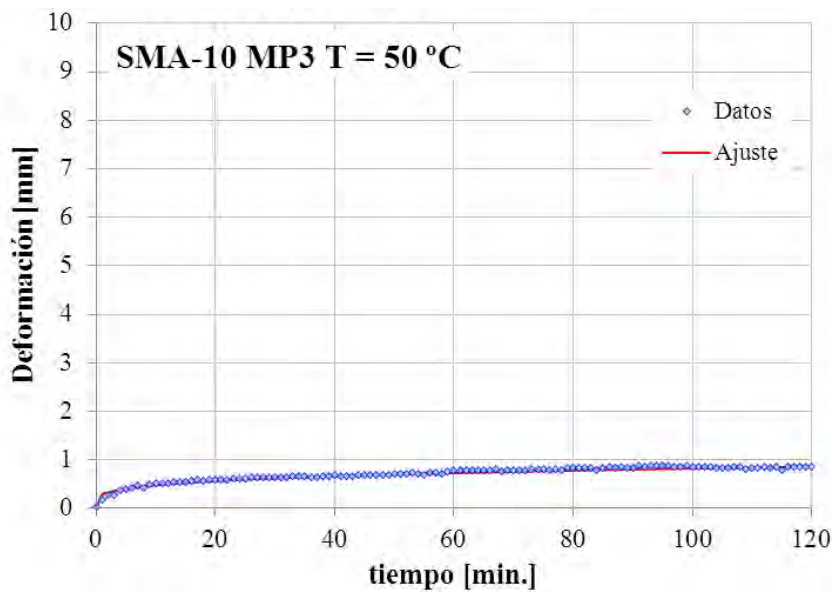


Mezcla (SMA-10)
Asfalto M
 $T_{\text{ensayo}} = 80 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,3722; b = 0,4452$

$R^2 = 0,99$

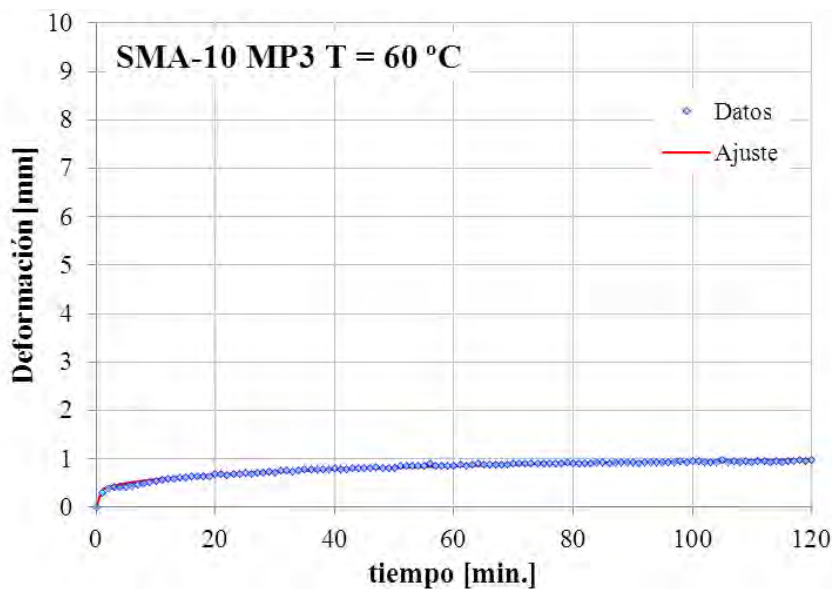


Mezcla (SMA-10)
Asfalto MP3
 $T_{\text{ensayo}} = 50 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,2798; b = 0,2341$

$R^2 = 0,96$

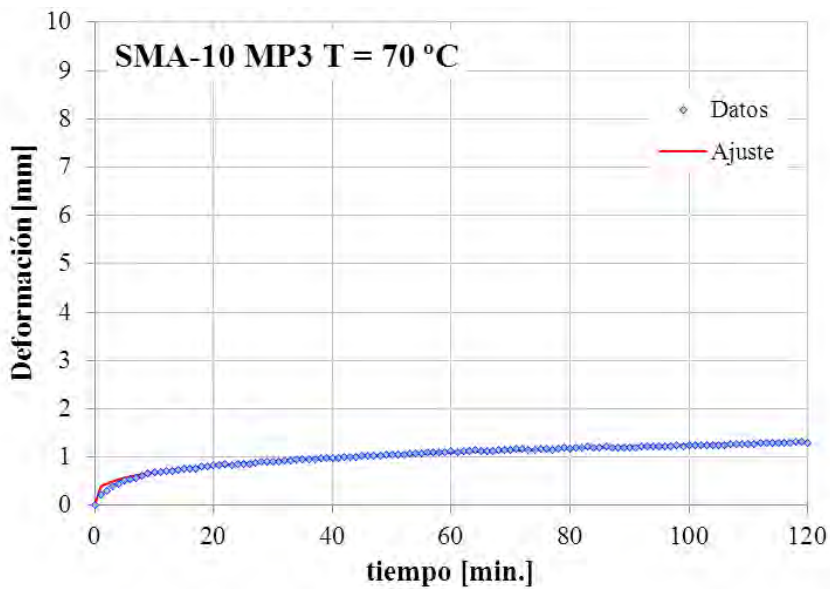


Mezcla (SMA-10)
Asfalto MP3
 $T_{\text{ensayo}} = 60 \text{ °C}$
Carga = 520 N

Ajuste

$a = 0,3534; b = 0,2125$

$R^2 = 0,97$



Mezcla (SMA-10)

Asfalto MP3

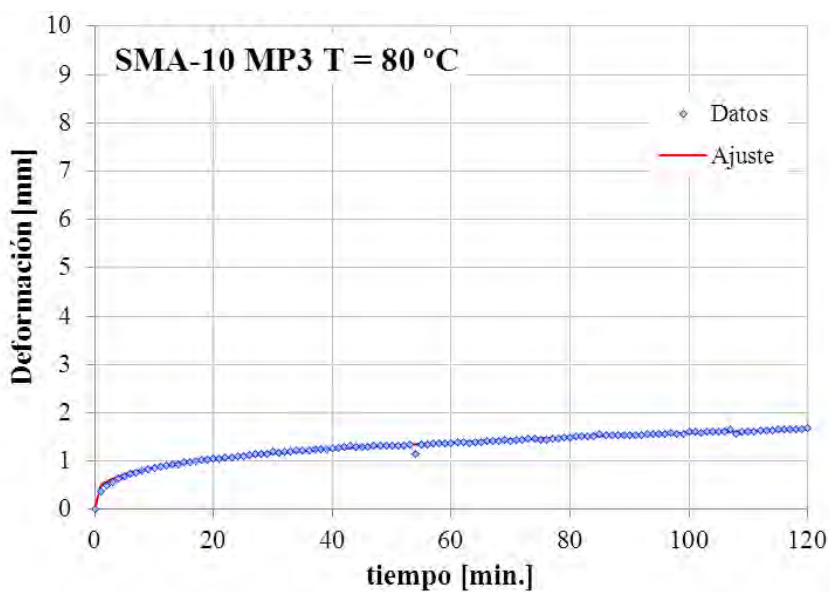
T_{ensayo} = 70 °C

Carga = 520 N

Ajuste

a = 0,3742; b = 0,2626

R² = 0,99



Mezcla (SMA-10)

Asfalto MP3

T_{ensayo} = 80 °C

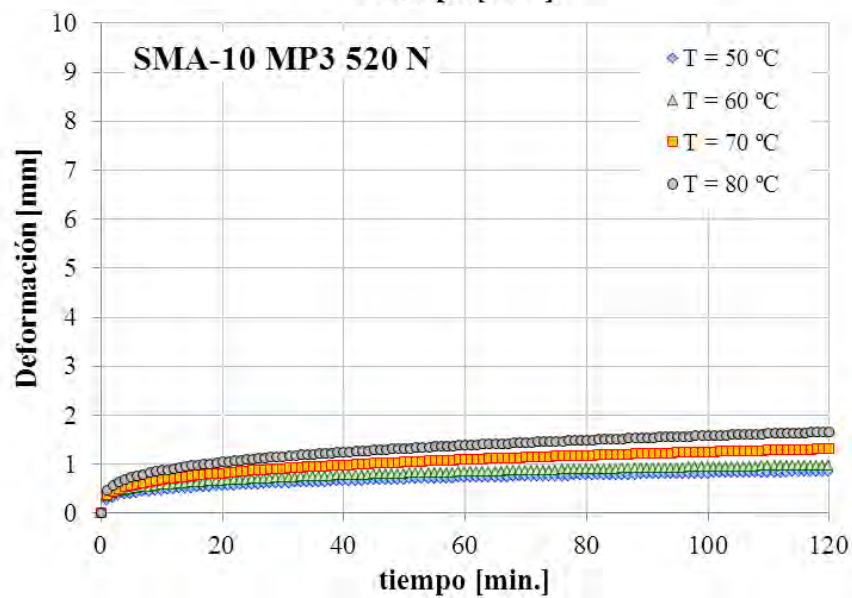
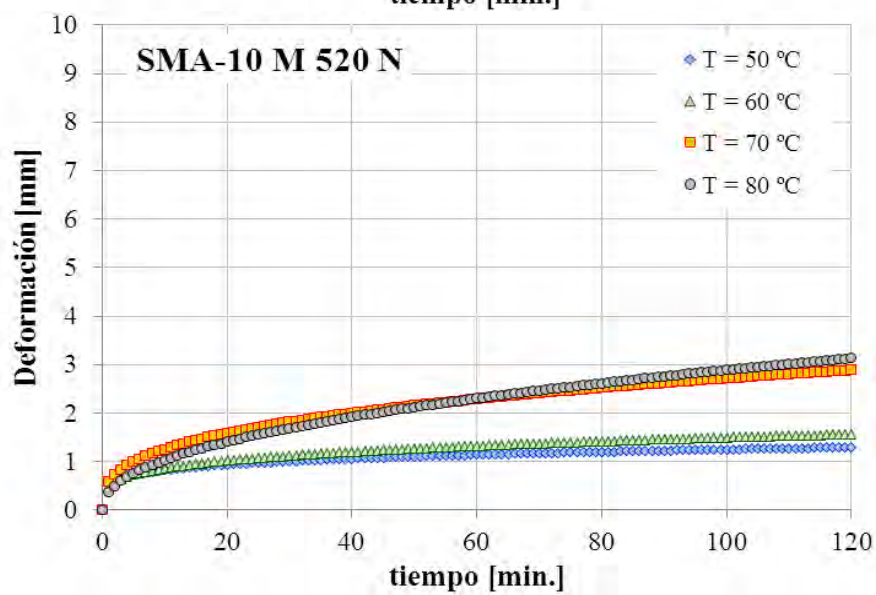
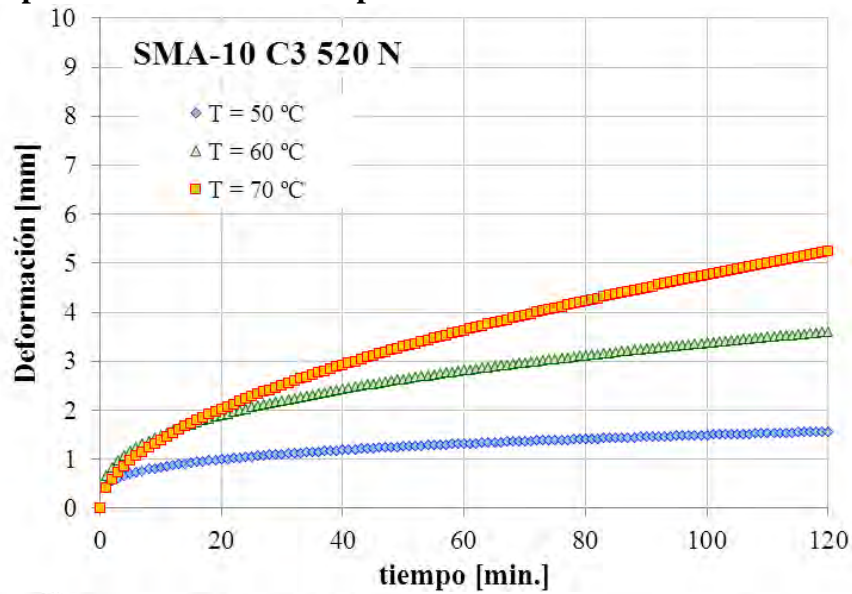
Carga = 520 N

Ajuste

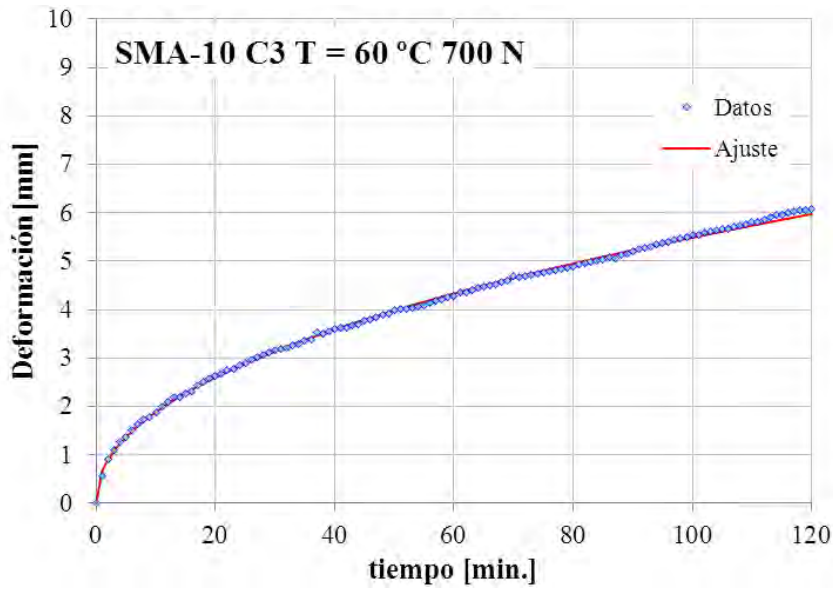
a = 0,4799; b = 0,2594

R² = 0,99

Curvas comparativas a distintas temperaturas



Stone Mastic Asphalt (SMA-10)
Ensayos a diferentes niveles de carga



**Mezcla (SMA-10)
Asfalto C3**

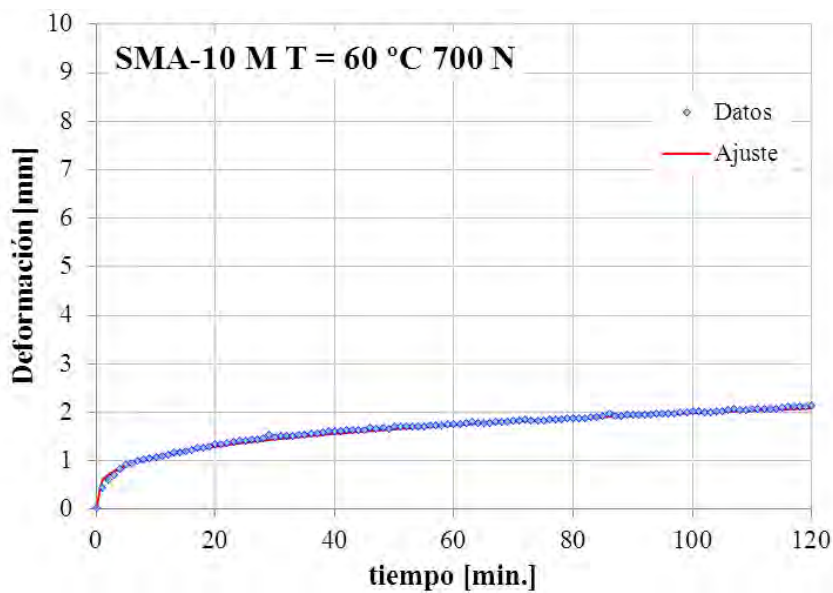
T_{ensayo} = 60 °C

Carga = 700 N

Ajuste

a = 0,6489; b = 0,4637

R² = 0,99



Mezcla (SMA-10)

Asfalto M

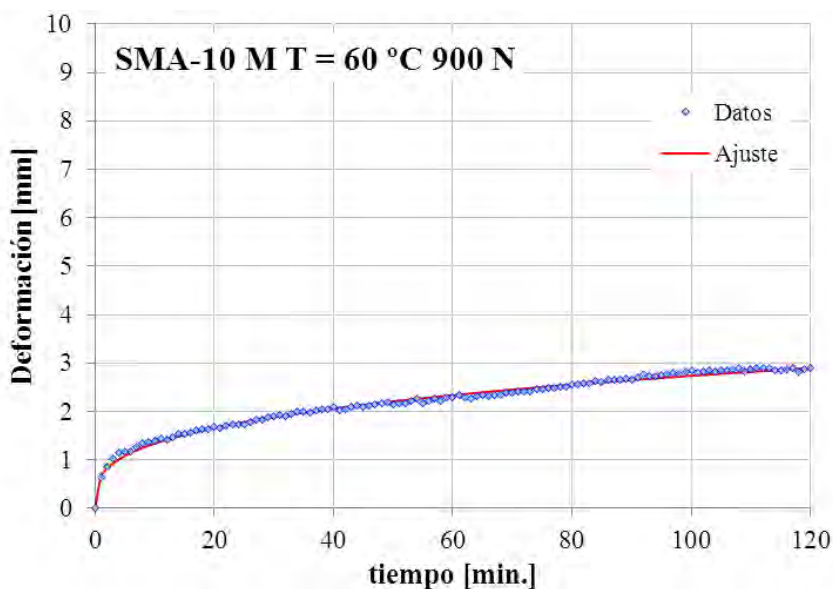
T_{ensayo} = 60 °C

Carga = 700 N

Ajuste

a = 0,5883; b = 0,2644

R² = 0,99



Mezcla (SMA-10)

Asfalto M

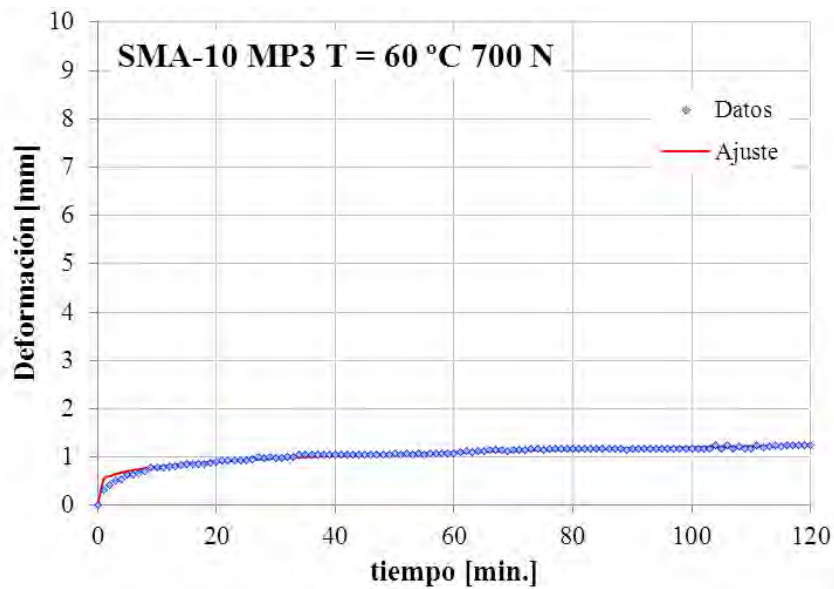
T_{ensayo} : 60 °C

Carga: 900 N

Ajuste

a = 0,6575; b = 0,3098

R² = 0,98



Mezcla (SMA-10)

Asfalto MP3

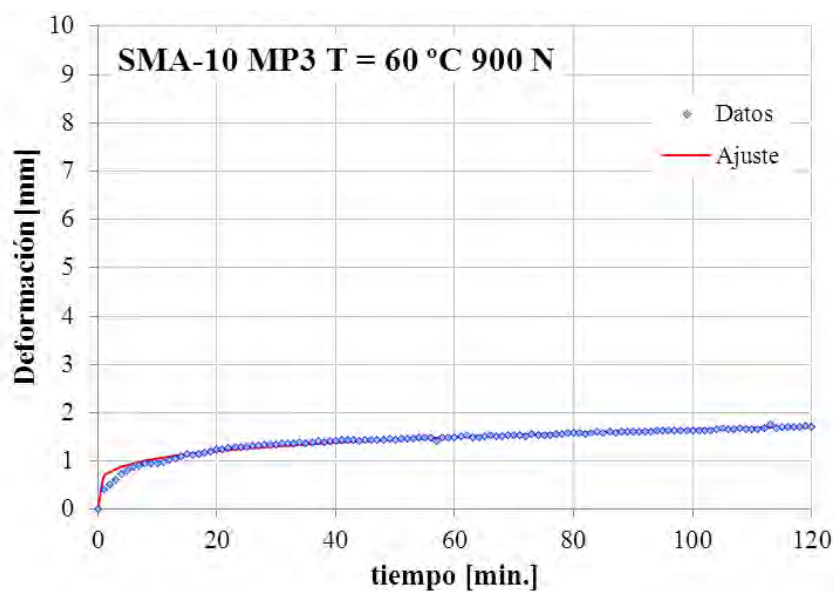
T_{ensayo} = 60 °C

Carga = 700 N

Ajuste

a = 0,5365; b = 0,1757

R² = 0,97



Mezcla (SMA-10)

Asfalto MP3

T_{ensayo} = 60 °C

Carga = 900 N

Ajuste

a = 0,6743; b = 0,1952

R² = 0,97

Curvas comparativas diferentes niveles de carga

