

YIELD LOCUS OF: Eskal150-2kPa

ORDER: HaoShi

Mean normal stress at preshear: SIGMA_{pre,m} = 2055 Pa

Raw data:

N_{pre} = 4,6106 kg

No.	Shear cell	m,tot [g]	Dh [mm]	N,sh [kg]	S,pre [kg]	S,sh [kg]
1	1	3490,5	0,640	0,9241	1,9153	0,5047
5	1	3490,5	0,730	0,9241	1,8954	0,5007
2	1	3490,5	0,670	1,8432	1,9391	0,9139
3	1	3490,5	0,690	2,7674	1,8994	1,2994
4	1	3490,5	0,710	3,6915	1,8994	1,6729

Stresses:

Tau_{pre,m} = 1335 PaSIGMA_{pre,m} = 2055 Pa

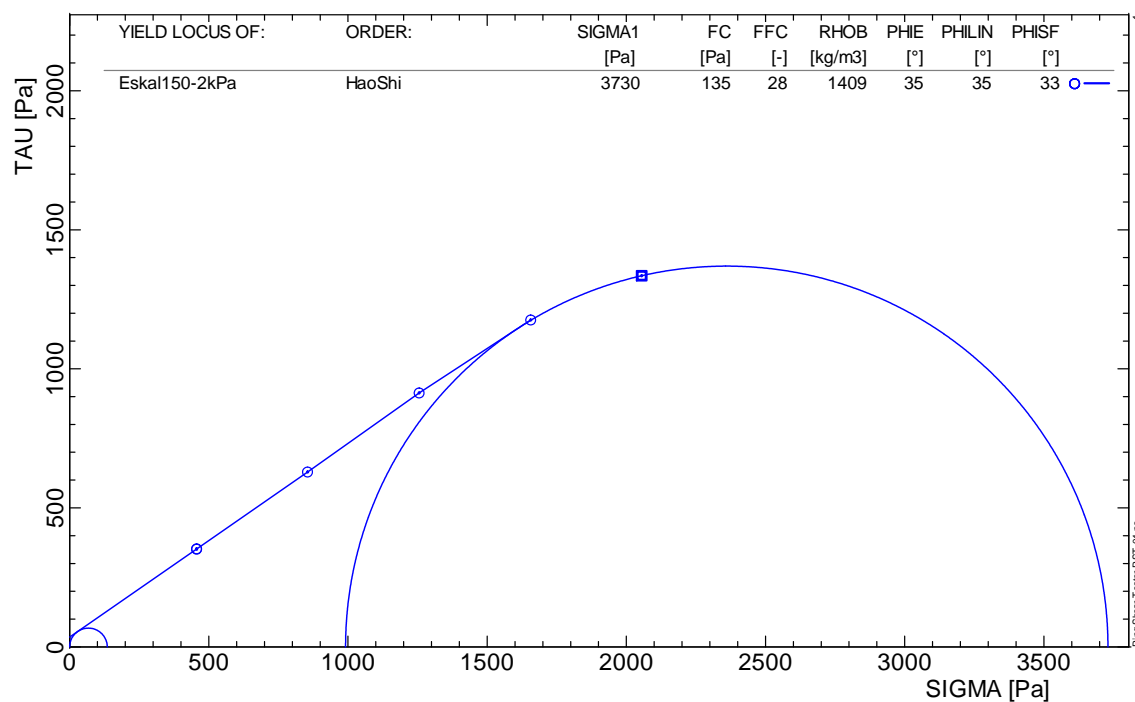
No.	SIGMA _{sh} [Pa]	TAU _{pre} [Pa]	TAU _{sh} [Pa]	TAU _{sh,pr} [Pa]	RHOB [kg/m ³]
1	456	1339	353	352	1407
5	456	1325	350	353	1411
2	855	1355	639	629	1408
3	1256	1328	908	913	1409
4	1656	1328	1169	1176	1410

Parameters of yield locus (flow properties):

SIGMA1 [Pa]	FC [Pa]	FFC [-]	FFRHO [-]	TAU _C [Pa]	RHOB [kg/m ³]	PHIE [°]	PHILIN [°]	PHISF [°]
3730	135	27,61	38,91	35	1409	35,5	34,6	33,0

Approximation of the yield locus: Straight sections

Prorating: on



YIELD LOCUS OF: Eskal150-2kPa

ORDER: HaoShi

Mean normal stress at preshear: SIGMA_{pre,m} = 2055 Pa

Raw data:

N_{pre} = 4,6106 kg

No.	Shear cell	m,tot [g]	Dh [mm]	N,sh [kg]	S,pre [kg]	S,sh [kg]
1	1	3489,4	0,730	0,9241	1,9550	0,5007
5	1	3489,4	0,850	0,9241	1,9233	0,5007
2	1	3489,4	0,770	1,8432	1,9391	0,9219
3	1	3489,4	0,790	2,7674	1,9312	1,2954
4	1	3489,4	0,820	3,6915	1,9113	1,6729

Stresses:

Tau_{pre,m} = 1350 PaSIGMA_{pre,m} = 2055 Pa

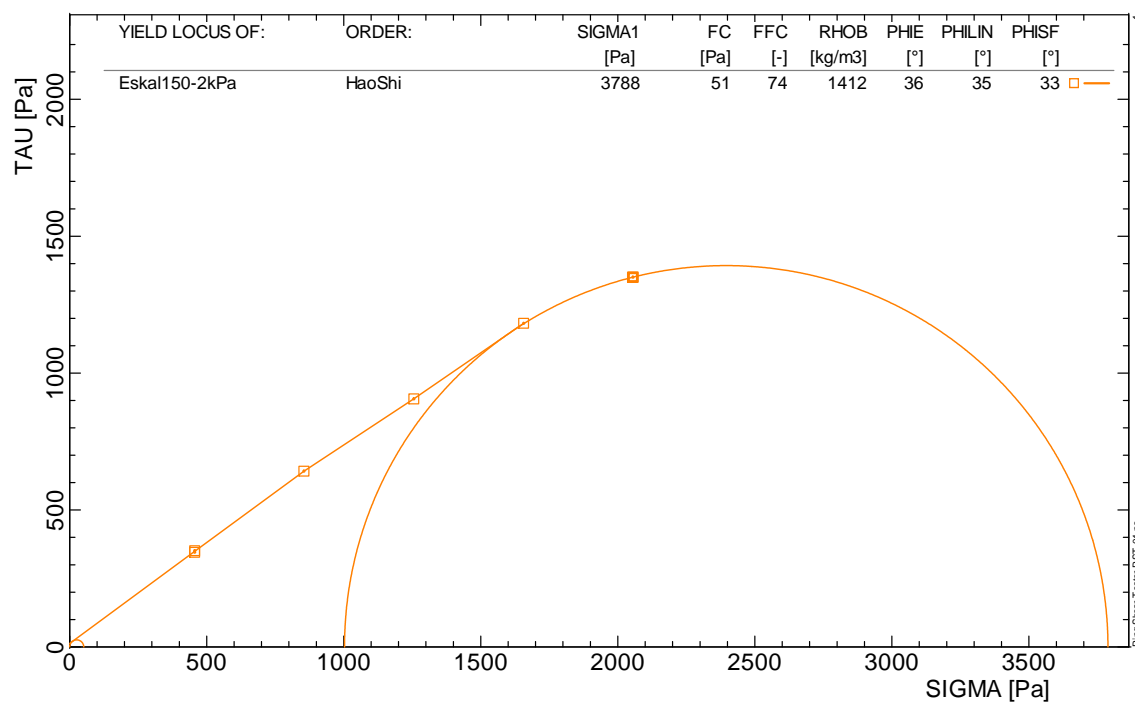
No.	SIGMA _{sh} [Pa]	TAU _{pre} [Pa]	TAU _{sh} [Pa]	TAU _{sh,pr} [Pa]	RHOB [kg/m3]
1	456	1366	350	346	1409
5	456	1344	350	352	1414
2	855	1355	644	642	1411
3	1256	1350	905	906	1412
4	1656	1336	1169	1182	1413

Parameters of yield locus (flow properties):

SIGMA1 [Pa]	FC [Pa]	FFC [-]	FFRHO [-]	TAU _C [Pa]	RHOB [kg/m3]	PHIE [°]	PHILIN [°]	PHISF [°]
3788	51	73,60	103,90	13	1412	35,5	35,2	33,3

Approximation of the yield locus: Straight sections

Prorating: on



YIELD LOCUS OF: Eskal150-2kPa

ORDER: HaoShi

Mean normal stress at preshear: SIGMA_{pre,m} = 2055 Pa

Raw data:

N_{pre} = 4,6106 kg

No.	Shear cell	m,tot [g]	Dh [mm]	N,sh [kg]	S,pre [kg]	S,sh [kg]
1	1	3491,8	0,610	0,9241	1,8875	0,4927
5	1	3491,8	0,730	0,9241	1,8875	0,4888
2	1	3491,8	0,670	1,8432	1,9550	0,9100
3	1	3491,8	0,690	2,7674	1,8915	1,2795
4	1	3491,8	0,710	3,6915	1,8835	1,6451

Stresses:

Tau_{pre,m} = 1329 PaSIGMA_{pre,m} = 2055 Pa

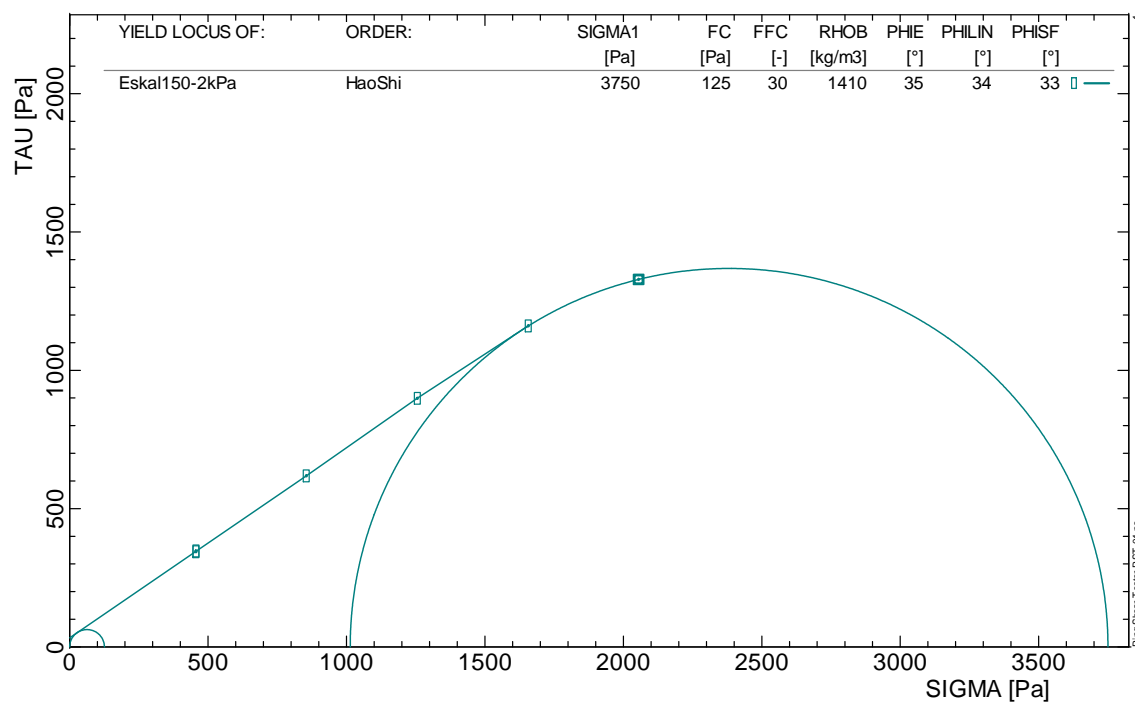
No.	SIGMA _{sh} [Pa]	TAU _{pre} [Pa]	TAU _{sh} [Pa]	TAU _{sh,pr} [Pa]	RHOB [kg/m ³]
1	456	1319	344	347	1408
5	456	1319	342	344	1412
2	855	1366	636	618	1410
3	1256	1322	894	899	1411
4	1656	1317	1150	1161	1411

Parameters of yield locus (flow properties):

SIGMA1 [Pa]	FC [Pa]	FFC [-]	FFRHO [-]	TAU _C [Pa]	RHOB [kg/m ³]	PHIE [°]	PHILIN [°]	PHISF [°]
3750	125	29,88	42,14	33	1410	35,1	34,3	32,9

Approximation of the yield locus: Straight sections

Prorating: on



Flowability (summary of test results for yield loci)

Bulk solid	Order	SIGMA1 [Pa]	FC [Pa]	FFC [-]	FFRHO [-]	RHOB [kg/m3]
Eskal150-2kPa	HaoShi	3730	135	27,61	38,91	1409
Eskal150-2kPa	HaoShi	3788	51	73,60	103,90	1412
Eskal150-2kPa	HaoShi	3750	125	29,88	42,14	1410

Approximation of the yield loci: Straight sections

Prorating: on

