YIELD LOCUS OF: Eskal300_10kpa-1

ORDER: Hao

Mean normal stress at preshear: SIGMA,pre,m = 10038 Pa

Raw data:

N,pre = 8,0699 kg

No.	Shear cell	m,tot [g]	Dh [mm]	N,sh [kg]	S,pre [kg]	S,sh [kg]
1	22	737,1	13,180	1,6160	2,5829	1,0888
2	22	737,1	13,240	3,2269	2,5789	1,5775
3	22	737,1	13,270	4,8430	2,5551	1,9550
4	22	737,1	13,300	6,4539	2,5233	2,2769

Stresses:

Tau,pre,m = 8536 Pa SIGMA,pre,m = 10038 Pa

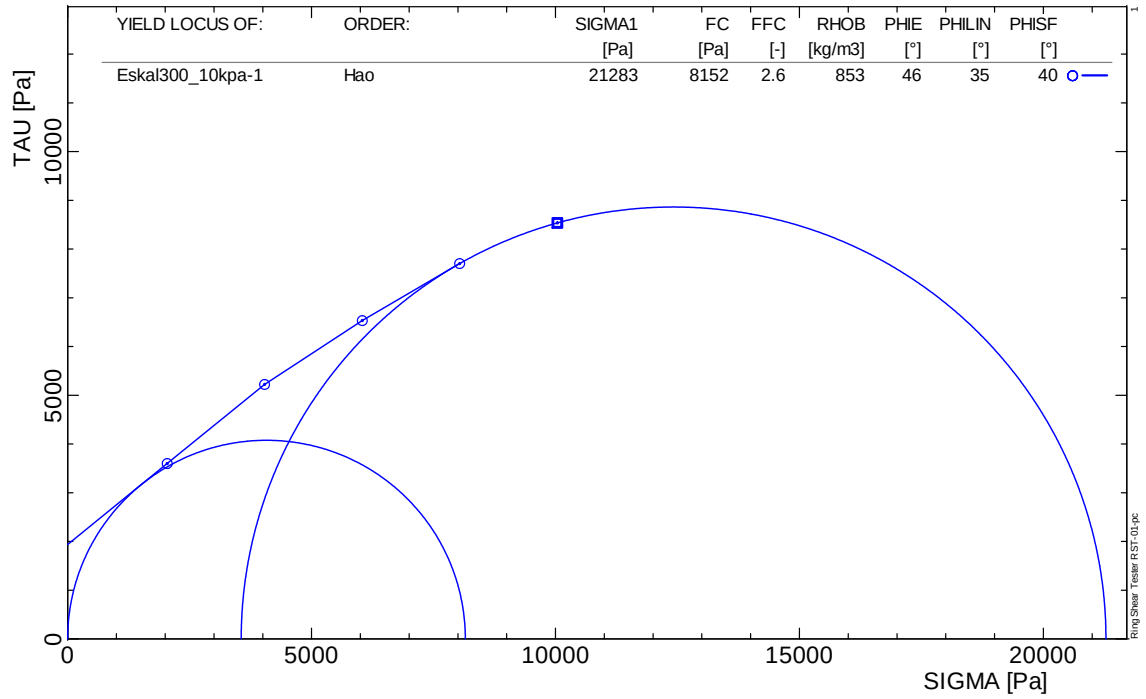
No.	SIGMA,sh [Pa]	TAU,pre [Pa]	TAU,sh [Pa]	TAU,sh,pr [Pa]	RHOB [kg/m3]
1	2041	8613	3631	3598	848
2	4037	8599	5260	5222	852
3	6040	8520	6519	6531	854
4	8036	8414	7592	7703	856

Parameters of yield locus (flow properties):

SIGMA1 [Pa]	FC [Pa]	FFC [-]	FFRHO [-]	TAU,C [Pa]	RHOB [kg/m3]	PHIE [°]	PHILIN [°]	PHISF [°]
21283	8152	2,61	2,23	1939	853	45,5	35,0	40,4

Approximation of the yield locus: Straight sections

Prorating: on



YIELD LOCUS OF: Eskal300_10kpa-2
ORDER: Hao
Mean normal stress at preshear: SIGMA,pre,m = 10041 Pa

Raw data:
N,pre = 8,0699 kg

No.	Shear cell	m,tot [g]	Dh [mm]	N,sh [kg]	S,pre [kg]	S,sh [kg]
1	25	741,9	13,180	1,6160	2,6306	1,1126
2	25	741,9	13,240	3,2269	2,6584	1,6173
3	25	741,9	13,270	4,8430	2,6385	2,0146
4	25	741,9	13,300	6,4539	2,6147	2,3564

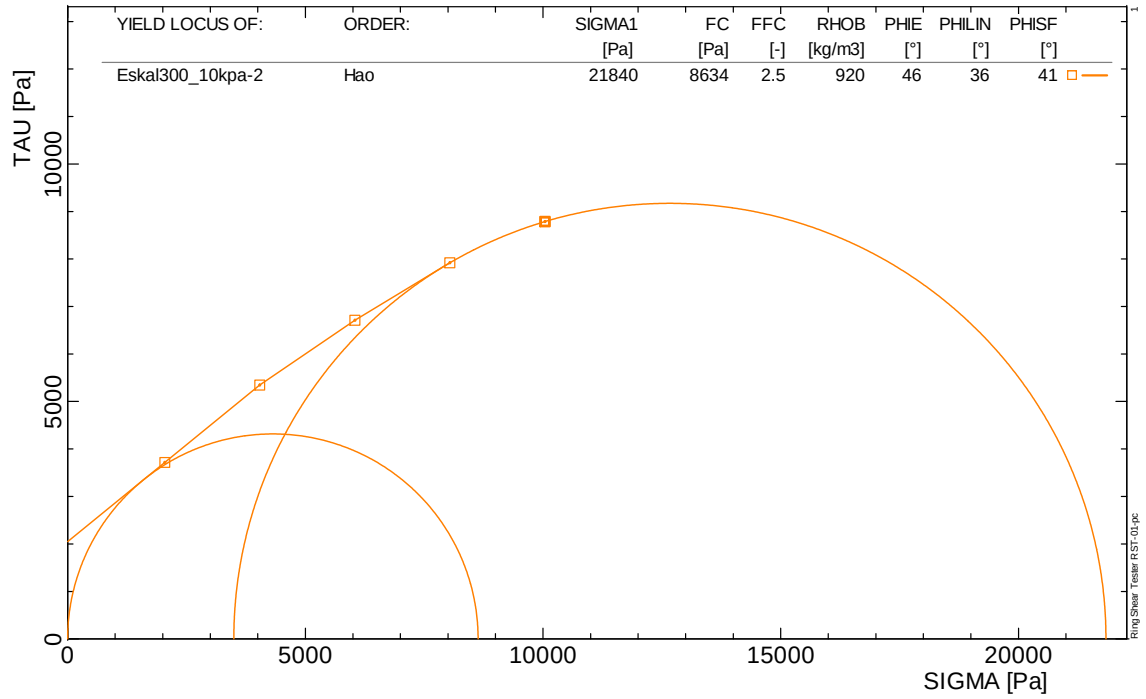
Stresses:
Tau,pre,m = 8788 Pa SIGMA,pre,m = 10041 Pa

No.	SIGMA,sh [Pa]	TAU,pre [Pa]	TAU,sh [Pa]	TAU,sh,pr [Pa]	RHOB [kg/m3]
1	2044	8772	3710	3717	914
2	4040	8864	5393	5346	919
3	6043	8798	6718	6710	921
4	8039	8719	7857	7920	924

Parameters of yield locus (flow properties):

SIGMA1 [Pa]	FC [Pa]	FFC [-]	FFRHO [-]	TAU,C [Pa]	RHOB [kg/m3]	PHIE [°]	PHILIN [°]	PHISF [°]
21840	8634	2,53	2,33	2049	920	46,4	35,6	41,2

Approximation of the yield locus: Straight sections
Prorating: on



YIELD LOCUS OF: Eskal300_10kpa-3

ORDER: Hao

Mean normal stress at preshear: SIGMA,pre,m = 10038 Pa

Raw data:

N,pre = 8,0699 kg

No.	Shear cell	m,tot [g]	Dh [mm]	N,sh [kg]	S,pre [kg]	S,sh [kg]
1	21	742,1	12,450	1,6160	2,6544	1,1047
2	21	742,1	12,520	3,2269	2,6782	1,6054
3	21	742,1	12,560	4,8430	2,6544	2,0067
4	21	742,1	12,590	6,4539	2,6186	2,3484

Stresses:

Tau,pre,m = 8841 Pa SIGMA,pre,m = 10038 Pa

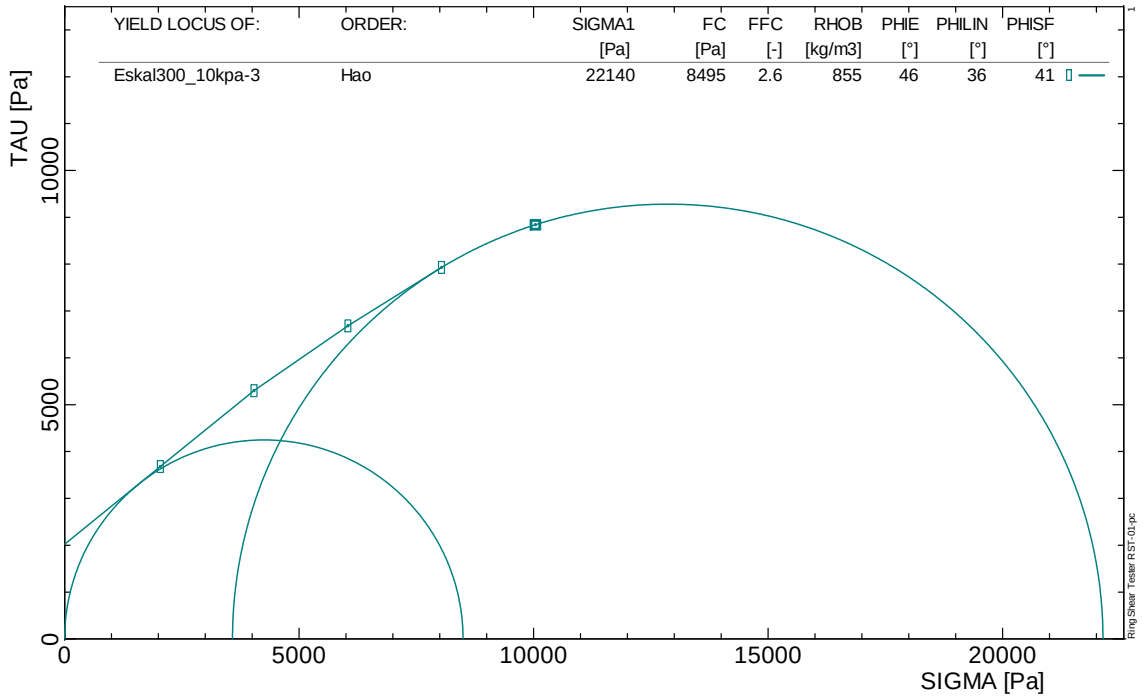
No.	SIGMA,sh [Pa]	TAU,pre [Pa]	TAU,sh [Pa]	TAU,sh,pr [Pa]	RHOB [kg/m3]
1	2041	8851	3684	3679	850
2	4037	8930	5353	5300	854
3	6040	8851	6691	6684	857
4	8036	8732	7831	7929	859

Parameters of yield locus (flow properties):

SIGMA1 [Pa]	FC [Pa]	FFC [-]	FFRHO [-]	TAU,C [Pa]	RHOB [kg/m3]	PHIE [°]	PHILIN [°]	PHISF [°]
22140	8495	2,61	2,23	2023	855	46,2	35,8	41,4

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]
Eskal300_10kpa-1	Hao	21283	8152	2,61	2,23	853
Eskal300_10kpa-2	Hao	21840	8634	2,53	2,33	920
Eskal300_10kpa-3	Hao	22140	8495	2,61	2,23	855

Approximation of the yield loci: Straight sections
Prorating: on