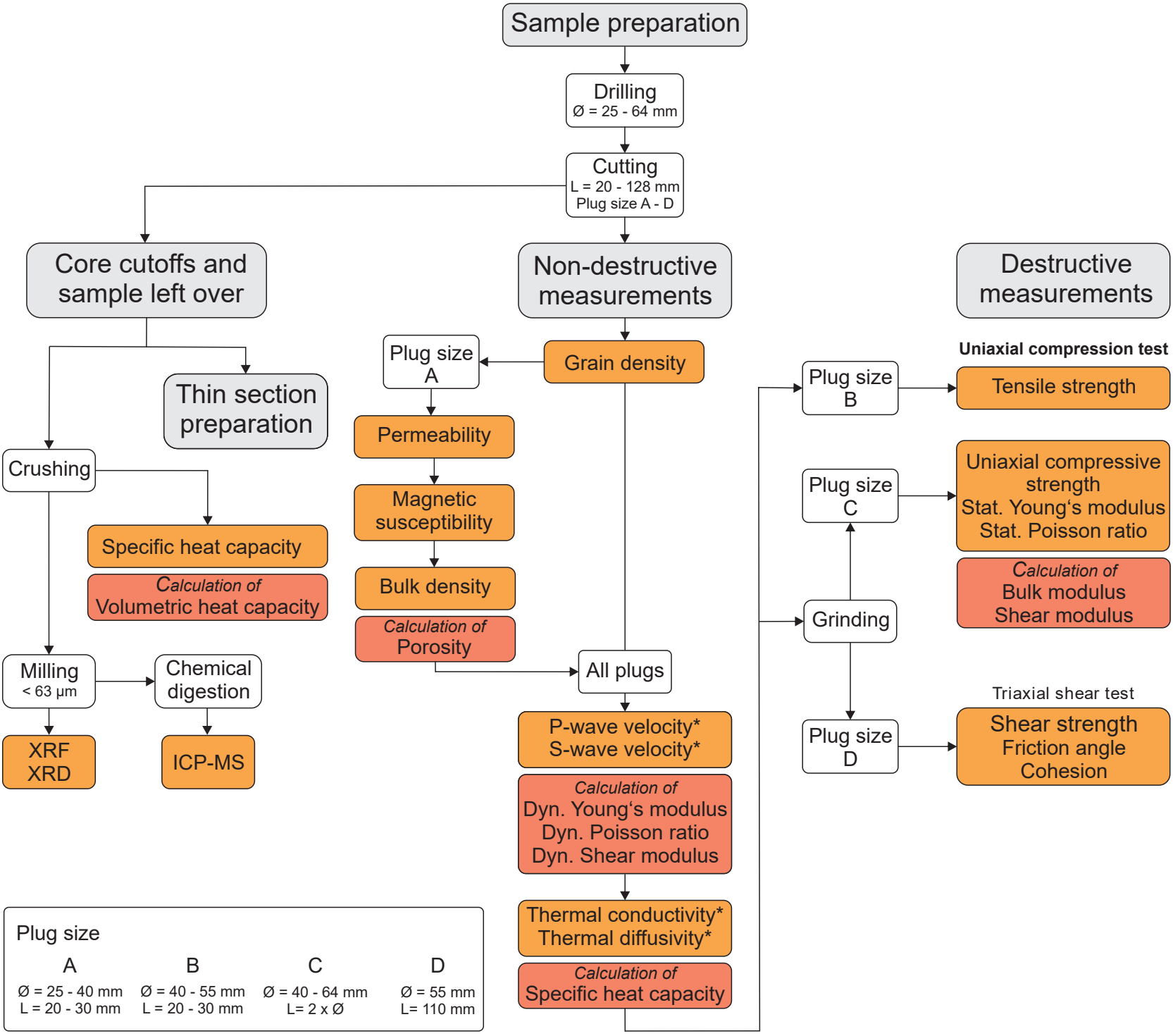
Sample preparation
Drilling
Ø = 25 - 64 mm
Cutting
L = 20 - 128 mm
Plug size A - D
Core cutoffs and sample left over
Non-destructive measurements
Destructive measurements
Thin section preparation
Crushing
Specific heat capacity
Calculation of
Volumetric heat capacity
Milling
< 63 µm
Chemical digestion
XRF
XRD
ICP-MS
Plug size A
Grain density
Permeability
Magnetic susceptibility
Bulk density
Calculation of
Porosity
All plugs
P-wave velocity*
S-wave velocity*
Calculation of
Dyn. Young's modulus
Dyn. Poisson ratio
Dyn. Shear modulus
Thermal conductivity*
Thermal diffusivity*
Calculation of
Specific heat capacity
Plug size B
Uniaxial compression test
Tensile strength
Plug size C
Uniaxial compressive strength
Stat. Young's modulus
Stat. Poisson ratio
Calculation of
Bulk modulus
Shear modulus
Grinding
Plug size D
Triaxial shear test
Shear strength
Friction angle
Cohesion
Plug size
A
Ø = 25 - 40 mm
L = 20 - 30 mm
B
Ø = 40 - 55 mm
L = 20 - 30 mm
C
Ø = 40 - 64 mm
L= 2 x Ø
D
Ø = 55 mm
L= 110 mm