Guide for Medical Clearance Data for Fit Test for Respiratory Protection

Background

Ensuring clarity about what fields represent and how they are displayed in the system helps to ensure you import the data properly and understand what is shown in the Portal.

This guide provide links to a examples file, to an import template and provides a data dictionary. This can help you understand the Fit Test Data for TSI Link for Respiratory Protection.

Links to Resources

Fit Test Import Template

Fit Test Import Example

TSI Link for Respiratory Protection API documentation (Login Required)

Data Dictionary

Fit Test Fields

Field Name	TSI Link field Name *	Required	Field Type	Example	Notes
personId	*foreign Key from people record*	No	toNumber	1276	non changeable unique identify that links fit test to people table. Assigned by the system. it connects the records. Read only, 0 to many fit tests per personID. unique per person per data set
testDate	Test Date	Yes	toISODate	2024-08-26T18:40:43.355Z	must be an ISO date string "2025-01-01T08:00:00.000Z" and in the past
dueDate	Next Test Date	Yes	toISODate	2025-08-26T18:40:43.355Z	must be an ISO date string "2025-01-01T08:00:00.000Z"
operator	Fit Test Operator	Yes	toText(64)	BOB SMITH	initials or name of fit tester
maskSize	Respirator Size	Yes	toText(64)	Large	
avgAmbient	Ambient Purge	No	toNumber	4	
overallFf	Overall Fit Factor	Yes	toNumber	5	
overallPass	color of overall fit factor, Green = Pass	Yes	toPassFail	1	Did the overall test pass? toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0

Field Name	TSI Link field Name *	Required	Field Type	Example	Notes
serialNumber	*The Serial Number used for a particular fit Test is not in the UI*	Yes	toText(64)	8048874632	PortaCount Serial Number, show up on fit test report
n95	N95	Yes	toBoolean	No	Is the Mask an N95 mask, toBoolean: "yes", "true", 1 ="true", "no", "false", 0 = false
firstName	First Name	Yes	toText(64)	Jill	
lastName	Last Name	Yes	toText(64)	Jacobs	
idNumber	id Number	Yes	toText(64)	7878	Typically the employee number from the company, assigned by the company / customer
company	Company	No	toText(64)	ABC Incorporated	Company of person being tested
location	Location	No	toText(64)	Shoreview	Location of the person being tested
note	Note	No	toText(64)	has long hair	Note from the Fit Test
custom1Label	*Custom Field 1 Label, name set by customer*	No	toText(64)	Department	null if not used
custom1Data	*Custom Field 1 value selected*	No	toText(64)	Engineering	null if not used
custom2Label	*Custom Field 2 Label, name set by customer*	No	toText(64)	Job Title	null if not used
custom2Data	*Custom Data 2 value selected*	No	toText(64)	Operating Engineer I	null if not used
custom3Label	*Custom Field 3 Label, name set by customer*	No	toText(64)	Shift	null if not used
custom3Data	*Custom Data 3 value selected*	No	toText(64)	First	null if not used
custom4Label	*Custom Field 4 Label, name set by customer*	No	toText(64)	Hazard Level	null if not used
custom4Data	*Custom Data 4 value selected*	No	toText(64)	Medium	null if not used
maskManufacturer	Manufacturer	Yes	toText(64)	Honeywell	
maskModel	Model	Yes	toText(64)	7700	
maskStyle	Style	Yes	toText(64)	Half Mask	
approval	Approval	Yes	toText(64)	NIOSH	Testing method type
ffPassLevel	Pass Level	Yes	toNumber	500	The overall required fit factor needed to pass
maskDescription	Mask Description	Yes	toText(64)	Honeywell 7700 Half Mask [500]	
protocolName	Protocols	Yes	toText(64)	OSHA 29CFR1910.134	
protocolModel	The Model used for a particular fit Test is not in the UI	Yes	toText(64)	7700	

Field Name	TSI Link field Name *	Required	Field Type	Example	Notes
ambientPurge	Ambient Purge (s)	Yes	toNumber	5	Ambient Purge time in seconds
ambientSample	Ambient Sample (S)	Yes	toNumber	4	Ambient Sample time in seconds
maskPurge	Respirator Purge (s)	Yes	toNumber	11	Purge time in seconds
period	*Period in months between fits tests as determined by protocol method*	Yes	toText(64)	12	typically 12 months or 1 year
endOnFail	*Not in the UI*	Yes	toBoolean	FALSE	toBoolean: "yes", "true", 1 ="true", "no", "false", 0 = false
algorithm	*The Serial Number used for a particular fit Test is not in the UI but is in the fit test report*	Yes	toAlgorithm	8048000001	toAlgorithm: "original" or 0 = 0, "algorithm1" or 1 = 1, "qlft" or 2 = 2
numExercises	*number of protocol exercises*	No	toNumber	8	is count of the steps / measurements
exercise1	Name of Exercise 1	No	toText(64)	NORMAL BREATHING	unique per Protocol
maskSample1	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude1	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor1	Fit Factor Exercise 1	No	toNumber	114	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass1	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise2	Name of Exercise 2	No	toText(64)	DEEP BREATHING	unique per Protocol, null if not used
maskSample2	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude2	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor2	Fit Factor Exercise 2	No	toNumber	122	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass2	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0

Field Name	TSI Link field Name *	Required	Field Type	Example	Notes
exercise3	Name of Exercise 3	No	toText(64)	HEAD SIDE TO SIDE	unique per Protocol, null if not used
maskSample3	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude3	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor3	Fit Factor Exercise 3	No	toNumber	99	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass3	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise4	Name of Exercise 4	No	toText(64)	HEAD UP AND DOWN	unique per Protocol, null if not used
maskSample4	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude4	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor4	Fit Factor Exercise 4	No	toNumber	111	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass4	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise5	Name of Exercise 5	No	toText(64)	TALKING	unique per Protocol, null if not used
maskSample5	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude5	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor5	Fit Factor Exercise 5	No	toNumber	136	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass5	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise6	Name of Exercise 6	No	toText(64)	GRIMACE	unique per Protocol, null if not used

Field Name	TSI Link field Name *	Required	Field Type	Example	Notes
maskSample6	*time in seconds for this step*	No	toNumber	15	not in the UI, used to calculate fit factor
exclude6	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	TRUE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor6	Fit Factor Exercise 6	No	toNumber	110	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass6	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise7	Name of Exercise 7	No	toText(64)	BENDING OVER	unique per Protocol, null if not used
maskSample7	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude7	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor7	Fit Factor Exercise 7	No	toNumber	108	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass7	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise8	Name of Exercise 7	No	toText(64)	NORMAL BREATHING	unique per Protocol, null if not used
maskSample8	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude8	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor8	Fit Factor Exercise 8	No	toNumber	127	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass8	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise9	Name of Exercise 9	No	toText(64)		unique per Protocol, null if not used
maskSample9	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor

Field Name	TSI Link field Name *	Required	Field Type	Example	Notes
exclude9	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor9	Fit Factor Exercise 9	No	toNumber	151	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass9	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise10	Name of Exercise 10	No	toText(64)		unique per Protocol, null if not used
maskSample10	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude10	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor10	Fit Factor Exercise 10	No	toNumber	101	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass10	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise11	Name of Exercise 11	No	toText(64)		unique per Protocol, null if not used
maskSample11	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor
exclude11	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor11	Fit Factor Exercise 11	No	toNumber	102	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass11	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
exercise12	Name of Exercise 12	No	toText(64)		unique per Protocol, null if not used
maskSample12	*time in seconds for this step*	No	toNumber	40	not in the UI, used to calculate fit factor

Field Name	TSI Link field Name *	Required	Field Type	Example	Notes
exclude12	*if included EXERCISE has a FIT FACTOR, if excluded has "excl." instead*	No	toBoolean	FALSE	is step excluded from the overall Fit Factor calculation for chosen protocol
fitFactor12	Fit Factor Exercise 12	No	toNumber	112	Fit Factor = Concentration Outside Mask / Concentration inside Mask, null if excluded
pass12	*Fit Factor in Results tab is Green if passes*	No	toPassFail	TRUE	Pass value for a step is Green in Results tab toPassFail: = 1, "pass", "yes", "true" = 1, 0, "no", "fail", "false" = 0
comfortScore		No	toText(16)		used with certain protocols
userCompeten cy		No	toText(16)		used with certain protocols
comfortValidati on		No	toText(16)		used with certain protocols
fitTestPerforme d		No	toBoolean		
reserved1	QLFT solution used. "saccharin" or "bitrex"	No	toText(32)	saccharin	QLFT solution used. "saccharin" or "bitrex"
reserved2	QLFT sensitivity test. Number of squeezes of solution used for test subject to sense solution.	No	toText(32)	3	QLFT sensitivity test. Number of squeezes of solution used for test subject to sense solution.
reserved3	Not currently used	No	toText(32)		Not currently used
reserved4	Not currently used	No	toText(32)		Not currently used

*Note * Italics = not a specific field on the TSI Link website, so the use is described*