Field Name/Abbreviation	Field Definition
% Change	Percentage of change in fluorescence units when compared to control
% Change in NF-κB activation	Ratio or Fold Change in NF-κB activation Treatment Group/Fold Change in NF-κB activation untreated control Group
% Control	100x (Fold Change in Treatment Group/Fold Change in Untreated control Group)
Air	Control group only exposed to filtered air
Animal #	Sample number
BAL AM	Number of alveolar macrophages in recovered bronchoalveolar lavage fluid
BAL LDH	Lactate Dehydrogenase in recovered bronchoalveolar lavage fluid (arbitrary units/liter)
BAL PMN	Number of polymorphonuclear leukocytes in recovered bronchoalveolar lavage fluid
Body weight pre-exposure	Gram measurement of mice before exposure
Body weight SAC	Gram measurement of mice at sacrifice
Cr (ug/sample)	Chromium per microgram of sample
Cu (ug/sample)	Copper per microgram of sample
Day	Days post exposure
DLS	Dynamic light scattering, A technique to measure size distribution profiles of particulate matter in aqueous suspensions.
Dose	Quantity of exposure
EGF	Epidermal growth factor (picogram/milliliter)
Electrical low-pressure impactor (ELPI) stage #	ELPI stage number- measures particle number and size in the air
Eotaxin	Sub family of chemokines that specifically target eosinophils (picogram/milliliter)
EPR Spectra Peak Height	Signal intensity (peak height) from the 1:2:2:1 spectrum (characteristic for. OH) represented in millimeter
Exposure	Type of exposure
Fe (ug/sample)	Iron per microgram of sample
Filter #	Sample number
Filter conc	Moudi filter for particle size measurement - mass (mg)
Filter ID	Micro-Orifice Uniform Deposit Impactor (Moudi) stage filter identification
Filter Stage Cut Size	Moudi Filters used for size separation in micrometers.
Fluorescence	Fluorescence units, a unit of measurement used in analysis which employs fluorescence detection. Measurement of the quantity or size of the level of fluorescence intensity.
Fluorescence Units	A unit of measurement used in analysis which employs fluorescence detection; measurement of the quantity or size of the level of fluorescence intensity
Fractalkine	Also known as CX3CL1 (picogram/milliliter)
G-CSF	Granulocyte colony-stimulating factor (picogram/milliliter)
GMA-SS	Gas metal arc stainless stee welding fume
GM-CSF	Granulocyte macrophage colony-stimulating factor (picogram/milliliter)

IFNγ	Interferon gamma (picogram/milliliter)
IL-10	Interleukin ten (picogram/milliliter)
IL-12p40	Interleukin twelve p40 subunit (picogram/milliliter)
IL-12p70	Interleukin twelve p70 subunit (picogram/milliliter)
IL-13	Interleukin thirteen (picogram/milliliter)
IL-15	Interleukin fifteen (picogram/milliliter)
IL-17	Interleukin seventeen (picogram/milliliter)
IL-1α	Interleukin one alpha; involved in pro inflammation (picogram/milliliter)
IL-1β	Interleukin one beta; involved in pro inflammation (picogram/milliliter)
IL-2	Interleukin two (picogram/milliliter)
IL-3	Interleukin three (picogram/milliliter)
IL-4	Interleukin four (picogram/milliliter)
IL-5	Interleukin five (picogram/milliliter)
IL-6	Interleukin six (picogram/milliliter)
IL-7	Interleukin seven (picogram/milliliter)
IL-9	Interleukin nine (picogram/milliliter)
In Vitro LDH Released	Ratio of fold change in lactate dehydrogenase in supernatant to total lactate dehydrogenase in cells
IP-10	Also known CXCL10; interferon gamma induced protein ten (picogram/milliliter)
KC	Also known as CXCL1; keratinocytes-derived chemokines (picogram/milliliter)
LIF	Leukemia inhibitory factor (picogram/milliliter)
LIX	Also known as CXCL5; lipopolysaccharide induced CXC chemokine (picogram/milliliter)
MCP-1	Monocyte chemoattractant protein one (picogram/milliliter)
M-CSF	Macrophage colony stimulating factor (picogram/milliliter)
Mechanism of Uptake	Change in uptake of PMET720-60 psi from control cells with no challenge to cells co treated with Chlorpromazine, Filipin III and Cytochalasin B
Metal	Specific metal that was measured
MIG	Also known as CXCL9; monokine induce by interferon-gamma (picogram/milliliter)
MIP-1β	Macrophage inflammatory protein one beta (picogram/milliliter)
MIP-2	Macrophage inflammatory protein two (picogram/milliliter)
MMA-SS	Manual metal arc stainless stee welding fumes
Mn (ug/sample)	Manganese per microgram of sample
mV	MilliVolts
NA	Data Not Available or Not Performed
Ni (ug/sample)	Nickel per microgram of sample
nm	Nanometer
Not Measured	No data obtained
Particle Number/stage ($1/cm^3$)	Particle number/stage (dN/dlogDp [$1/cm^3$])

Particle sample	Thermal spray coating consumable wire
PBS	Phosphate Buffered Saline
pg/ml	Picogram per milliliter
PMET 720-50 psi	Cr-based thermal spray coating consumable wire at 50 psi
PMET 720-60 psi	Cr-based thermal spray coating consumable wire at 60 psi
RANTES	Regulated upon activation normal t-cell expressed and secreted (picogram/milliliter)
ROS	Reactive Oxygen Species expressed as Mean fluorescence intensity.
Sac	Sacrifice
Ti (ug/sample)	Titanium per microgram of sample
Time	Days post-exposure
TNFα	Tumor necrosis factor alpha (picogram/milliliter)
Total BAL cells	Number of total lung cells recovered by bronchoalveolar lavage
Treatment	What the sample was exposed to
Tx	Refer to treatment
ug/ml	Microgram per milliliter
VEGF	Vascular endothelial growth factor (picogram/milliliter)
Weight %	Percentage by weight of each metal measured on a filter sample
WST-1	Cell metabolism of 4-[3-(4-Iodophenyl)-2-(4-nitrophenyl)-2H-5-tetrazolio]-1,3-benzene Disulfonate expressed as fold change from control cells with no treatment.
Zero within data	True zero
Zeta Potential	Zeta potential is the electrokinetic potential or charge that develops at the interface between a solid surface and its liquid medium. It is represented as MilliVolts